

The Commonwealth of Massachusetts

ANNUAL REPORT

OF THE

Department of Public Works

For the Year Ending June 30, 1945



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COMMISSION ON ADMINISTRATION
AND FINANCE

BY _____

THE COMMONWEALTH OF MASSACHUSETTS

Twenty-fifth Annual Report

of the

Department of Public Works

Year Ending June 30, 1945

To the Honorable Senate and House of Representatives of
the Commonwealth of Massachusetts:

The organization of the Department as defined in Chapter 16,
General Laws, Tercentenary Edition, was as follows:

Commissioner of Public Works:	HERMAN A. MACDONALD
Associate Commissioner:	GEORGE W. SCHRYVER
Associate Commissioner:	ROBERT L. WHIPPLE to December 15, 1944; JOSEPH P. DEVER beginning June 20, 1945
Director, Division of Waterways:	RICHARD K. HALE

Although the end of the war in Europe effected a general liberation of manpower and materials, shortages of both continued to restrain the Department from attaining the desired stage of operation.

As a result of the hurricane of September, 1944, the eastern counties of the Commonwealth suffered considerable damage to roadways and trees. In order to safeguard the travelling public and repair the damage, the Department entered into twelve contracts for the removal of damaged and dangerous trees as well as for the repair of road surfaces wherever such repair was found to be necessary.

The total damage to State highways resulting from the hurricane was estimated to be \$243,000.

The construction of highways was confined largely to access roads. One such project, Winter Street, Framingham, in connection with the Army hospital and estimated to cost \$39,800, was started and completed within the fiscal year.

During the year construction work was completed on several projects started during the preceding fiscal year, these projects for the most part being access roads to Army or Navy camps, airports or hospitals. An access road to the Beverly Airport, 0.5 miles in length, was completed at a cost of approximately \$23,000, and an access road at South Boston, about 0.2 miles in length, at a cost of approximately \$14,000.

A grade crossing elimination project was completed on Winter Street in Framingham at a cost of approximately \$43,000. Access roads were also completed at New Bedford and at Norton and Taunton, 1.9 miles and 3.8 miles in length, at costs of approximately \$135,000 and \$169,000 respectively.

One Federal Aid (Primary Road) project, estimated to cost \$203,600, was awarded although construction work did not start before the end of this fiscal year. This project provided for the construction of the Feeding Hills Bridge over the Westfield River in the towns of Agawam and West Springfield.

The Department entered into numerous minor contracts for the maintenance and repair of roadways, bridges and various buildings, and for the procurement of wash boring data in several towns in connection with the design of proposed roadways and bridges.

The Materials Testing Laboratory was required to do a large amount of soil testing in connection with the construction of the General Edward Lawrence Logan Airport. It is expected that in the future this phase of the laboratory work will increase and contribute to improved designs of roadways.

The Traffic Division reports that fatalities on State highways have increased for the first time since the beginning of the war. The removal of dimout restrictions, with the termination of hostilities in Europe, resulted in the Division's removal of masks from State-owned signals and traffic signs in the dimout areas. As was to be expected, many requests were received from cities and towns for the resumption of full operation of signals cancelled during the war.

The Construction Division supervised the construction of town and county ways in accordance with the provisions of Chapter 90, Section 34, General Laws, Tercentenary Edition. Allotments were made for maintenance work on existing roads to practically every town in the Commonwealth. In addition, allotments were made for several hurricane damage repair projects. Under the provisions of Chapter 81, Section 26 to 29, and 31, General Laws, public ways were repaired and improved in one hundred and seventy-nine towns of the Commonwealth.

The Maintenance Division, although still considerably hindered by shortages of materials, personnel, hired equipment and replacement parts for State-owned equipment, continued to keep roads and bridges in suitable condition. The easing of restrictions on the use of asphalt and tar products permitted more extensive surface treatment and patching of roadway surfaces. In snow removal operations, the equipment and personnel problems augmented the difficulties, although these operations were carried out on 2307 miles of highway.

It became necessary for the Division to perform repair work in the towns of Erving and Gill where sections of concrete on the French King Bridge had become slightly decomposed.

In connection with roadside development, the Division continued the practice of spraying and replacing trees and shrubs as far as the factor of limited personnel permitted.

The Outdoor Advertising Division performed its function of regulating advertising signs and devices as provided for under Chapter 93, Sections 29 to 33, General Laws. In accordance with the provisions of Chapter 93, Section 30A, General Laws, approximately 19,800 signs were removed from within highway bounds and from private property. The Division cooperated with cities, towns and civic groups in furnishing information relative to advertising sign problems.

REGISTRY OF MOTOR VEHICLES

The cessation of hostilities in Europe in May, 1945, reflected various effects on the Registry of Motor Vehicles. For the most part these may be enumerated as follows: (1) an increase in the volume of transactions handled; and (2) an increase in the amount of steel

allocated in proportions sufficiently large to permit the manufacture of registration number plates--one for each vehicle, with the proviso established that the plate be attached to the rear of the vehicle.

In order to decrease the last-minute rush on registrations, the branch offices were authorized to receive 1945 registration applications on November 1, 1944. This policy has proved to be so effective that in order to relieve personnel of the excessive pressure encountered in such instances it will be continued.

The Registry continued its usual activities in connection with investigations, inspections and court prosecutions.

WATERWAYS DIVISION

In expectation of a tremendous advance in air traffic at the General Edward Lawrence Logan Airport after the expiration of hostilities, the Waterways Division concentrated on the planning and advancement of the construction of this airport. New contracts were entered into for hydraulic fill, for alterations to the Administration Building to accommodate new airlines which are establishing Boston as a new terminal, for moving and alterations of engineering field offices, for the construction of range lights and to advance the development of the airport. Borings were made over this whole area and soil tests were taken to assist in the design.

Two outstanding engineers were engaged as consultants to assist in the design of the runways and, in general, every effort was made to forward the expansion of the airport.

Commonwealth Piers 1 and 5 remained in use by the United States Navy while the major portion of the public lands in South Boston was used jointly by the Army and the Navy. The maintenance of both land and piers was carried on by the Division.

The Auxiliary Airport in Bedford, the Cape Cod Canal Pier in Bourne and a portion of the New Bedford State Pier, all normally under the supervision of the Waterways Division, remained in the use of the United States Armed Services.

With relation to the provisions of Chapter 91, Section 11, General Laws, concerning improvements of rivers, harbors and foreshores located outside of Boston Harbor, construction was limited because of existing wartime restrictions. Work under this law was carried out as follows: (1) repairs to jetties in Falmouth, Mashpee and Yarmouth; (2) channel excavation in Aunt Lydia's Cove, Chatham; (3) repairs to dike at Menemsha Inlet, Chilmark; (4) repairs to sea walls at the Annisquam Canal in Gloucester, Brant Rock in Marshfield and The Glades in Scituate; (5) dredging in anchorage basin, Nantucket Harbor; and (6) repairs to timber bulkhead at The Highlands, Oak Bluffs.

Under the provisions of Chapter 513, Acts of 1939, and Chapter 419, Acts of 1941, the work covering stream clearance and protection against flood damage has been continued. During the year channel excavation and clearing of streams has been done in the Prince River, Barre; Hemlock Brook, Williamstown; Swift River (east branch), Petersham and Saw Mill River, Montague. Work under the above laws also included repairs to the existing spillway and construction of a new spillway and a dike in Greenwater Pond, Becket,

and removal and disposal of old pile and timber trestle over the Charles River in Medfield and Millis.

In mapping the Commonwealth, gauging streams, and in similar work, the Waterways Division continued its cooperation with the Federal agencies.

The engineering and clerical staff of the Department was as follows:

Chief Engineer, RAYMOND W. COBURN

Highway Engineer, (Projects) GEORGE H. DELANO

Highway Engineer, (Construction) FRANCIS T. McAVOY

Highway Engineer, (Maintenance) JAMES E. LAWRENCE

Highway Engineer, (Traffic) EDGAR F. COPELL

Bridge Engineer, RALPH O. SPOFFORD

District Highway Engineers:--

District No. 1, GEORGE A. CURTIS:--The cities and towns of Berkshire County; the towns of Worthington, Middlefield and Huntington in Hampshire County and the towns of Chester, Montgomery, Russell, Blandford and Tolland in Hampden County.

District No. 2, CYRIL B. RAYMOND:--The cities and towns of Franklin County; the cities and towns of Hampshire County, except the towns of Huntington, Middlefield and Worthington; the cities and towns of Hampden County, except the towns of Blandford, Brimfield, Chester, Holland, Monson, Montgomery, Palmer, Russell, Tolland and Wales.

District No. 3, MARTIN J. DALTON:--The cities and towns of Worcester County (including the town of Harvard, for construction only) and the towns of Brimfield, Holland, Monson, Palmer and Wales in Hampden County.

District No. 4, FRED D. SABIN:--The cities and towns of Middlesex County (including the cities of Malden and Melrose, for construction only); the towns of Wellesley and Brookline in Norfolk County; the town of Harvard, for maintenance only, in Worcester County and the city of Boston in Suffolk County.

District No. 5, CHARLES A. FRITZ:--The cities and towns of Essex County; the cities of Malden and Melrose, for maintenance only, in Middlesex County; the town of Winthrop and the cities of Chelsea, Revere and ^{sections of} Boston in Suffolk County.

District No. 6, FRANK A. CHASE:--The cities and towns of Norfolk County, except the town of Cohasset; the cities and towns of Bristol County; ^{of} sections of the city of Brockton in Plymouth County and the city of Boston in Suffolk County.

District No. 7, LEWIS R. SELLEW:--The cities and towns of Plymouth County (including sections of the city of Brockton); the town of Cohasset in Norfolk County and the towns of Barnstable, Dukes and Nantucket Counties.

District Waterways Engineer:--EVERETT N. HUTCHINS

Secretary --- MARY A. RILEY

Department Business Agent --- FRED FAIR

REGISTRY OF MOTOR VEHICLES

Registrar --- FRANK A. GOODWIN until August 15, 1944
RUDOLPH F. KING beginning August 16, 1944

Deputy Registrar --- ANTHONY A. BONZAGNI

Assistant to the Registrar --- ALFRED W. DEVINE

Chief Inspector of Motor Vehicles --- ALBERT S. OLSSON

Chief Accountant --- WILLIAM F. CAMPBELL

Assistant Chief Administrative Clerk --- THOMAS J. POWERS

ARMED FORCES

Since the preparation of the last report of the Department, the following employees have entered the armed forces of the United States:

HIGHWAY

Donahue, John C.	Mansfield, Gordon W.	Radulski, Alfred A.
Everett, Mildred E.	Martin, Walter W.	Valerio, Joseph
Flynn, Edward J.	Neal, John C.	Wood, Allen S.
Hurton, James L.		

REGISTRY OF MOTOR VEHICLES

Burns, Josephine J.	Fuhs, Paul P.
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WATERWAYS DIVISION

Schwelm, Frederick C.

A detailed report of the activities of the Department for the year follows:

REPORTS TO THE LEGISLATURE

~~The~~ House Document No. 1850 was submitted to the Legislature under date of March 29, 1945, being Report of the Post-War Highway Commission, of which the Commissioner of Public Works is a member, established under Chapter 46 of the Resolves of 1943.

RECOMMENDATIONS FOR LEGISLATION

The Commissioner of Public Works presented to the State Secretary on December 6, 1944, as required by law, that part of the current annual report which contains recommendations or suggestions for legislative action as follows:

1. To provide for the sale of land of the Commonwealth in the West Roxbury district of the city of Boston and the town of Brookline.

In connection with the settlement of land damage cases in Boston and Brookline, resulting from the laying out on December 8, 1931, of a way then known as Brook Farm Parkway, the owners of three parcels of land in Boston and of two parcels of land in Brookline deeded to the Commonwealth voluntarily certain areas of their land which remained after the takings were made by the Department for the laying out and construction of the way. These areas were so small that they could not be used to advantage by the owners, they were not needed for the construction of the way, and are not needed for its maintenance. Owners of land adjoining these parcels have attempted to purchase the areas in question, but the Department has no authority to make the sales. Legislation is sought to authorize the Department on behalf of the Commonwealth to sell these small parcels of land.

2. To require that warning signs at grade crossings of railroads be in accordance with standards established by the Department of Public Works.

At present the Public Roads Administration requires the erection of such signs, reflectorized, at each railroad grade crossing within the limit of a Federal aid project, but will not participate in the cost because the signs the State is required to erect by State law do not comply with the Public Roads Administration standards. The differences are minor.

3. Relative to the speed of motor vehicles and the operation thereof on State highways.

Authority to control the speed of motor vehicles on State highways by means of signs appears necessary. The need will not exist for the duration of the war, but with the return of peace the necessity for such authority will unquestionably be very great. The desire to cover distance in the shortest possible time will most certainly be renewed when the present restriction of thirty-five miles per hour is removed. The hazards of former years will, of course, be the same. Lacking authority to control and direct speed by signs, the excessive rates may be reflected in an upward trend of accidents on State highways.

4. To provide for the illumination of hazardous locations on State highways.

At the present time there is no law permitting the Department to arrange for the installation or maintenance of lights for the illumination of State highways. There are many places along State highways where there are street intersections at which there is a very high accident rate, due in part to the fact that the intersections are not properly lighted at night. As these places are in rural districts, the towns maintain no street lights and the Department has no authority to maintain them. This legislation is sought for the safety of the travelling public.

5. Relative to certain contracts for the repair and maintenance of structures and property under the control of the Department of Public Works.

At the present time certain contracts are subject to the approval of the Governor and Council, and very often, when it is imperative that certain necessary repair or maintenance work be done at the earliest possible moment, delays result which are detrimental to the work because of the time consumed in submitting the contracts to the Governor and Council and securing their approval. It would facilitate matters greatly if such contracts amounting to less than one thousand dollars could be made by the Department without the approval of the Governor and Council.

6. To provide for the exercise and performance of the powers and duties of the Registrar of Motor Vehicles in case of a vacancy in said office.

The present law confers no authority on any person to perform the duties of the Registrar of Motor Vehicles in the event of a vacancy in that office. The accompanying bill would provide for conferring such authority upon the Deputy Registrar, and would further provide that a license issued by a Registrar shall become valid upon the effective date thereof, notwithstanding the fact that the Registrar who issued the same ceased to hold said office prior to said effective date.

7. Re-defining the phrase "Heavy Duty Platform Trailer," and relative to the fees for the registration of a tractor, which is a part of a semi-trailer unit.

The proposed amendment of the definition of "Heavy Duty Platform Trailer" is for the purpose of clarifying the law relating thereto. The proposed amendment relating to the fees for the registration of a tractor is for the purpose of conforming to what was understood to be the Legislature's attitude on Diesel-driven motor vehicles. Heavy vehicles known as heavy duty platform trailers and driven by Diesel engines were taxed on a basis of \$5 per thousand pounds because their motive power was not taxable gasoline, but were recently ruled to be semi-trailer units and as such dropped to a fee of \$1.50 per thousand pounds because the differentiation as to motive power does not exist in semi-trailer units. It is understood that it was the idea of the Legislature that Diesel-driven vehicles of any description should bear a heavier registration fee than gasoline-driven vehicles, because it felt that gasoline-driven vehicles are subject to the gasoline tax, which does not hold for the Diesel-driven vehicles.

8. To authorize the Registrar of Motor Vehicles to require the display of windshield stickers on motor vehicles and to make rules and regulations respecting the periodic inspection, construction and equipment of school buses.

Because of an appeal from a district court decision which is now pending before the Massachusetts Supreme Court on questions of law, it is requested that the Registrar of Motor Vehicles be given authority to require every person who has complied with periodic inspection regulations made by him under authority of Section 7A of Chapter 90 of the General Laws to display this sticker on the windshield of his motor vehicle, and that failure to do so be made a punishable offense.

The Massachusetts School Bus Act was passed in 1932. Since that time country-wide attention has been given to the subject of school bus regulations, and our act is not sufficient to take care of present-day demands. This legislation is sought to authorize the Registrar of Motor Vehicles to make rules and regulations governing the operation and construction of school buses, to take effect after a public hearing and subject to the approval of the Commissioner and Associate Commissioners of Public Works.

9. Providing for the payment of sick leave allowances to public employees in certain cases in lieu of Workmen's Compensation.

This legislation is sought to clarify a situation which exists in the case of injured employees who have sick leave allowances to their credit. The present law provides that if an employee is incapacitated for more than two weeks his compensation shall begin on the date of the injury. It provides, further, however, that in case he has vacation or overtime allowances to his credit, he may receive Workmen's Compensation and the aforesaid allowances covering the same period. This legislation is sought to provide for the payment of Workmen's Compensation at the expiration of any sick leave allowance which the injured employee has to his credit.

10. To authorize the Department of Public Works to acquire property for the development of Boston Harbor.

In order to provide for the orderly development of Boston Harbor it becomes desirable for the Commonwealth to purchase waterfront property of the New York, New Haven & Hartford Railroad Company in South Boston; the property of the Boston & Albany Railroad, New York Central Railroad, Lessee, in East Boston; and the waterfront property of the Boston & Maine Railroad, known as Hoosac Docks, in Charlestown. It is recommended that the Department be authorized to acquire such properties, to construct modern piers thereon, and to use or lease such properties for commercial purposes without rendering them liable for taxation by the city of Boston.

11. To authorize the Department of Public Works to make provision for the continued development of the General Edward Lawrence Logan Airport at East Boston.

It is recommended that additional funds be provided for the continued development of the General Edward Lawrence Logan Airport at East Boston, and that the Department be authorized to acquire lands or flats for the extension of the field or for the acquisition of filling material; and that it be permitted to dredge and fill, construct dikes, bulkheads and approaches, drains, runways, lighting, buildings, and all other work that may be necessary in connection with the development of this important facility, and for providing the necessary services therefor.

The following is a list of all the rules and regulations made or promulgated by the Department and in force and effective on June 30, 1945:

- RULES AND REGULATIONS FOR DETERMINING THE HORSE POWER OF MOTOR VEHICLES, made by the Department on October 27, 1925. These rules prescribe the formula which shall be used in making this determination.
- RULES AND REGULATIONS CONCERNING HEADLAMPS ON MOTOR VEHICLES, made by the Registrar of Motor Vehicles on November 12, 1928, and approved by the Department on November 14, 1928. These rules specify the number of headlamps required, the intensity of the lights and the manner in which the lenses and reflectors shall be adjusted.
- RULES AND REGULATIONS FOR DETERMINING REGISTERED WEIGHT OF MOTOR VEHICLES, etc., made by the Commissioner of Public Works on December 23, 1930. These rules prescribe the factors to be used in determining the registered weight of motor vehicles, trailers and semi-trailer units used for the transportation of goods, wares and merchandise.
- RULES AND REGULATIONS CONCERNING SCHOOL BUSES, made by the Registrar of Motor Vehicles on September 9, 1932, and approved by the Department on September 13, 1932. These rules require the periodic inspection of school buses to determine whether they are properly equipped and maintained.
- RULES AND REGULATIONS FOR DRIVING ON STATE HIGHWAYS, adopted by the Department on September 26, 1933, and approved by the Governor and Council on October 1, 1933. These rules direct, govern and restrict the movement of vehicles on State highways. Section 12, relating to stopping and turning signals, was amended April 13, 1936, and August 26, 1936, but the amendments have been declared to be unconstitutional - 298 Mass. 417.
- RULES AND REGULATIONS CONCERNING MOTOR VEHICLE EQUIPMENT, made by the Registrar of Motor Vehicles on October 10, 1933, and approved by the Department on the same date. These rules require that every motor vehicle shall be so constructed and maintained that the operator shall have a clear view ahead, that the windshield shall be equipped with a wiper, and that nothing shall be attached to the windshield to obstruct the view of the operator.
- RULES AND REGULATIONS CONCERNING BRAKES ON MOTOR VEHICLES, made by the Registrar of Motor Vehicles on October 25, 1933, and approved by the Department on November 21, 1933. These rules require motor vehicles to be equipped with brakes adequate to stop such vehicles within specified distances when going at a speed of twenty miles an hour.
- RULES AND REGULATIONS RELATING TO THE TRANSPORTATION BY MOTOR VEHICLES OF PERSONAL PROPERTY OVER THE WAYS OF THE COMMONWEALTH, made by the Department on May 20, 1936. These rules relate to the marking of trucks, the limits of loads on certain ways, the carrying capacity and load allowed, and define what is meant by registered weight.

RULES AND REGULATIONS PROVIDING FOR THE PERIODIC INSPECTION OF MOTOR VEHICLES AND TRAILERS, made by the Registrar of Motor Vehicles on January 18, 1944, and approved by the Department on January 25, 1944. These rules require the inspection of motor vehicles during the two months period from September 1 to October 31, inclusive, of each year to determine if they are equipped as required by law.

RULES AND REGULATIONS RELATING TO OUTDOOR ADVERTISING, made by the Department on April 24, 1941. These rules govern the control and restriction of billboards, signs and other advertising devices; require the licensing of persons and concerns engaged in the business of outdoor advertising, the securing of permits for the erection and maintenance of such advertising devices, and they fix the charges therefor.

DEPARTMENT OF PUBLIC WORKS - HIGHWAYS

STATEMENT OF APPROPRIATIONS AND EXPENDITURES

July 1, 1944 - June 30, 1945

		<u>Amount</u> <u>Appropriated</u>	<u>Amount</u> <u>Allotted</u>	<u>Total</u> <u>Expenditures</u>
	<u>Allocation Title</u>			
01	<u>Department Administration</u>			
	Department Secretary			
32	Personal Services	23,595.14	23,595.14	17,669.18
62	Equip. Rental & Stores Mat.	615.00	615.00	459.15
02	Other Expense	700.00	700.00	497.77
		<u>24,910.14</u>	<u>24,910.14</u>	<u>18,626.10</u>
	Business Agent			
33	Personal Services	102,049.05	102,049.05	100,893.26
63	Equip. Rental & Stores Mat.	8,600.00	8,600.00	8,184.99
03	Other Expense	24,150.00	24,150.00	21,523.92
		<u>134,799.05</u>	<u>134,799.05</u>	<u>130,602.17</u>
	Vacation, Sick Leave & Other			
	Compensated Absence			
04	Personal Services	<u>711,215.84</u>	<u>711,215.84</u>	<u>673,158.36</u>
	<u>Total</u>	<u>870,925.03</u>	<u>870,925.03</u>	<u>822,386.63</u>

	<u>Allocation Title</u>	<u>Amount</u> <u>Appropriated</u>	<u>Amount</u> <u>Allotted</u>	<u>Total</u> <u>Expenditures</u>
02	Highways Eng. & Adm.			
	Highways Eng. & Adm. Overhead			
31	Personal Services	675,131.84	675,131.84	674,023.46
61	Equip. Rental & Stores Mat.	73,629.00	73,629.00	73,033.43
01	Other Expense	45,256.52	45,256.52	43,428.60
		<u>794,017.36</u>	<u>794,017.36</u>	<u>790,485.49</u>
	Services to Outside Agencies			
33	Personal Services	32,849.02	32,849.02	31,411.84
63	Equip. Rental & Stores Mat.	11,550.30	11,550.30	9,543.83
03	Other Expense	12,420.00	12,420.00	11,816.25
		<u>56,819.32</u>	<u>56,819.32</u>	<u>52,771.92</u>
	Topographical Survey			
34	Personal Services	359.35	359.35	336.36
64	Equip. Rental & Stores Mat.	100.00	100.00	62.00
04	Other Expense	50,000.00	50,000.00	50,000.00
		<u>50,459.35</u>	<u>50,459.35</u>	<u>50,398.36</u>
	Highway Regulatory Permits & Insp.			
36	Personal Services	15,355.50	15,355.50	14,475.51
66	Equip. Rental & Stores Mat.	2,874.50	2,874.50	2,492.94
06	Other Expense	275.00	275.00	248.84
		<u>18,505.00</u>	<u>18,505.00</u>	<u>17,217.29</u>
	Research and Planning			
37	Personal Services	74,446.70	74,446.70	72,826.47
67	Equip. Rental & Stores Mat.	2,297.00	2,297.00	1,205.88
07	Other Expense	9,174.00	9,174.00	8,322.70
		<u>85,917.70</u>	<u>85,917.70</u>	<u>82,355.05</u>

	<u>Allocation Title</u>	<u>Amount</u> <u>Appropriated</u>	<u>Amount</u> <u>Allotted</u>	<u>Total</u> <u>Expenditures</u>
02	Highways Eng. & Adm. (cont'd)			
	Eng. Plans & Surveys for Future Projects			
38	Personal Services	283,547.27	283,547.27	283,461.96
68	Equip. Rental & Stores Mat.	10,340.96	10,340.96	9,357.72
08	Other Expense	28,016.91	28,016.91	27,191.80
		<u>321,905.14</u>	<u>321,905.14</u>	<u>320,011.48</u>
	Eng. Force Acct. Const. Proj.			
39	Personal Services	748.80	748.80	596.94
69	Equip. Rental & Stores Mat.	25.00	25.00	22.12
09	Other Expense	26.50	26.50	21.91
		<u>800.30</u>	<u>800.30</u>	<u>640.97</u>
	Eng. Primary Roads Const. F. A.			
40	Personal Services	17,057.94	17,057.94	16,187.22
70	Equip. Rental & Stores Mat.	1,690.00	1,690.00	323.77
10	Other Expense	4,056.25	4,056.25	902.91
		<u>22,804.19</u>	<u>22,804.19</u>	<u>17,413.90</u>
	Eng. Primary Roads Const. non F.A.			
41	Personal Services	3,128.90	3,128.90	2,003.00
71	Equip. Rental & Stores Mat.	153.51	153.51	92.67
11	Other Expense	140.25	140.25	24.80
		<u>3,422.66</u>	<u>3,422.66</u>	<u>2,120.47</u>
	Eng. Secondary Roads Const. F.A.			
42	Personal Services	6,949.32	6,949.32	6,898.97
72	Equip. Rental & Stores Mat.	551.25	551.25	490.98
12	Other Expense	1,318.60	1,318.60	1,235.51
		<u>8,819.17</u>	<u>8,819.17</u>	<u>8,625.46</u>

	<u>Allocation Title</u>	<u>Amount</u> <u>Appropriated</u>	<u>Amount</u> <u>Allotted</u>	<u>Total</u> <u>Expenditures</u>
02	Highways Eng. & Adm. (cont'd)			
	Eng. Grade Crossing Elim. F. A.			
44	Personal Services	45.80	45.80	37.71
74	Equip. Rental & Stores Mat.	10.00	10.00	1.26
14	Other Expense	-	-	-
		<u>55.80</u>	<u>55.80</u>	<u>38.97</u>
	Eng. Chapter 90 Projects			
47	Personal Services	40,658.82	40,658.82	38,602.35
77	Equip. Rental & Stores Mat.	4,424.50	4,424.50	4,168.89
17	Other Expense	1,775.00	1,775.00	1,313.27
		<u>46,858.32</u>	<u>46,858.32</u>	<u>44,084.51</u>
	Eng. Chapter 81 Projects			
48	Personal Services	42,916.14	42,916.14	39,035.57
78	Equip. Rental & Stores Mat.	7,036.00	7,036.00	6,948.28
18	Other Expense	1,152.00	1,152.00	121.12
		<u>51,104.14</u>	<u>51,104.14</u>	<u>46,104.97</u>
	Eng. Access Roads F. A.			
49	Personal Services	19,634.53	19,634.53	17,654.61
79	Equip. Rental & Stores Mat.	1,162.16	1,162.16	823.25
19	Other Expense	493.18	493.18	287.88
		<u>21,289.87</u>	<u>21,289.87</u>	<u>18,765.74</u>
	Eng. Advance Eng. F. A.			
52	Personal Services	28,312.86	28,312.86	24,098.62
82	Equip. Rental & Stores Mat.	1,575.08	1,575.08	501.03
22	Other Expense	884.88	884.88	720.63
		<u>30,772.82</u>	<u>30,772.82</u>	<u>25,320.28</u>

		<u>Amount</u> <u>Appropriated</u>	<u>Amount</u> <u>Allotted</u>	<u>Total</u> <u>Expenditures</u>
	<u>Allocation Title</u>			
02	Highways Eng. & Adm. (cont'd)			
	Eng. Special Highway Projects			
53	Personal Services	2,766.28	2,766.28	2,328.95
83	Equip. Rental & Stores Mat.	159.33	159.33	96.83
23	Other Expense	114.40	114.40	39.51
		<u>3,040.01</u>	<u>3,040.01</u>	<u>2,465.29</u>
	Eng. Contract Maint. Projects			
54	Personal Services	16,376.52	16,376.52	15,931.27
84	Equip. Rental & Stores Mat.	1,839.40	1,839.40	1,815.09
24	Other Expense	4,200.00	4,200.00	3,041.92
		<u>22,415.92</u>	<u>22,415.92</u>	<u>20,788.28</u>
	Eng. Post War Projects			
55	Personal Services	218,819.60	218,819.60	211,629.61
85	Equip. Rental & Stores Mat.	4,223.72	4,223.72	3,804.89
25	Other Expense	11,108.96	11,108.96	9,040.21
		<u>234,152.28</u>	<u>234,152.28</u>	<u>224,474.71</u>
	<u>Total</u>	<u>1,773,159.35</u>	<u>1,773,159.35</u>	<u>1,724,083.14</u>
04	Maint. & Oper. of Highways			
	General Maintenance			
31	Personal Services	660,724.62	660,724.62	659,984.50
61	Equip. Rental & Stores Mat.	661,349.56	661,349.56	660,835.44
01	Other Expense	90,126.04	90,126.04	89,779.48
		<u>1,412,200.22</u>	<u>1,412,200.22</u>	<u>1,410,599.42</u>
	Traffic Services			
32	Personal Services	97,103.90	97,103.90	96,440.00
62	Equip. Rental & Stores Mat.	121,482.86	121,482.86	121,073.58
02	Other Expense	24,745.25	24,745.25	23,879.82
		<u>243,332.01</u>	<u>243,332.01</u>	<u>241,393.40</u>

	<u>Allocation Title</u>	<u>Amount Appropriated</u>	<u>Amount Allotted</u>	<u>Total Expenditures</u>
04	Maint. & Oper. of Hwys.(cont'd)			
	Bridge Maint. & Operation			
33	Personal Services	93,184.09	93,184.09	92,258.43
63	Equip. Rental & Stores Mat.	14,064.00	14,064.00	13,959.04
03	Other Expense	12,130.00	12,130.00	11,932.09
		119,378.09	119,378.09	118,149.56
	State Hwy. Snow & Ice Control			
34	Personal Services	514,303.77	514,303.77	513,705.72
64	Equip. Rental & Stores Mat.	640,885.49	640,885.49	640,506.84
04	Other Expense	183,600.00	183,600.00	182,664.32
		1,338,789.26	1,338,789.26	1,336,876.88
	Town Road Snow & Ice Control			
35	Personal Services	1,911.10	1,911.10	1,646.56
65	Equip. Rental & Stores Mat.	4,543.10	4,543.10	4,082.41
05	Other Expense	23,150.00	23,150.00	23,015.12
		29,604.20	29,604.20	28,744.09
	Contract Maint. Projects			
36	Personal Services	442.13	442.13	-
66	Equip. Rental & Stores Mat.	-	-	-
06	Other Expense	224,600.00	224,600.00	223,892.34
		225,042.13	225,042.13	223,892.34
	Town Grade Separation Repairs			
07	Other Expense	1,767.00	1,767.00	1,767.00

		<u>Amount</u> <u>Appropriated</u>	<u>Amount</u> <u>Allotted</u>	<u>Total</u> <u>Expenditures</u>
	<u>Allocation Title</u>			
04	Maint. & Oper. of Hwys.(cont'd)			
	Reimbursable Services Other Depts.			
38	Personal Services	16,200.30	16,200.30	15,748.08
68	Equip. Rental & Stores Mat.	29,000.00	29,000.00	28,519.89
08	Other Expense	6,400.00	6,400.00	6,124.19
		<u>51,600.30</u>	<u>51,600.30</u>	<u>50,392.16</u>
	Building Small Structures			
39	Personal Services	6,000.00	6,000.00	5,628.70
69	Equip. Rental & Stores Mat.	3,500.00	3,500.00	3,419.92
09	Other Expense	3,000.00	3,000.00	2,901.07
		<u>12,500.00</u>	<u>12,500.00</u>	<u>11,949.69</u>
	Moving Public Works Garage			
58	Personal Services	3,000.00	3,000.00	2,526.49
88	Equip. Rental & Stores Mat.	200.00	200.00	148.43
28	Other Expense	5,300.00	5,300.00	5,114.68
		<u>8,500.00</u>	<u>8,500.00</u>	<u>7,789.60</u>
	 Total	 <u>3,442,713.21</u>	 <u>3,442,713.21</u>	 <u>3,431,554.14</u>

		<u>Amount</u> <u>Appropriated</u>	<u>Amount</u> <u>Allotted</u>	<u>Total</u> <u>Expenditures</u>
09	<u>Allocation Title</u> Force Acct., Constr., Reconst. and Betterment Projects			
	General Highway Projects			
31	Personal Services	17,416.56	17,416.56	16,978.82
61	Equip. Rental & Stores Mat.	55,645.10	55,645.10	54,972.73
01	Other Expense	6,667.00	6,667.00	5,125.06
		<u>79,728.66</u>	<u>79,728.66</u>	<u>77,076.61</u>
	Traffic Signal Installations			
34	Personal Services	1,800.00	1,800.00	1,366.01
64	Equip. Rental & Stores Mat.	3,000.00	3,000.00	2,854.89
04	Other Expense	200.00	200.00	53.11
		<u>5,000.00</u>	<u>5,000.00</u>	<u>4,274.01</u>
	Total	<u>84,728.66</u>	<u>84,728.66</u>	<u>81,350.62</u>
10	Federal Aid Highway Projects			
	Primary Roads-Land Damages			
01	Other Expense	79,971.79	79,971.79	26,460.57
	Primary Roads-Project Payments			
02	Other Expense	677,853.49	571,773.63	26,002.86
	Primary Roads-Force Acct. Work			
33	Personal Services	1,740.87	1,740.87	59.73
63	Equip. Rental & Stores Mat.	720.81	720.81	511.44
03	Other Expense	137.21	137.21	48.05
		<u>2,598.89</u>	<u>2,598.89</u>	<u>619.22</u>
	Secondary Roads-Land Damages			
04	Other Expense	351.15	351.15	310.43
	Secondary Roads-Project Payments			
05	Other Expense	28,530.11	28,530.11	-

		<u>Amount</u> <u>Appropriated</u>	<u>Amount</u> <u>Allotted</u>	<u>Total</u> <u>Expenditures</u>
	<u>Allocation Title</u>			
10	Fed. Aid Hwy. Projects (cont'd)			
	Grade Crossing Elim.-Land Damages			
07	Other Expense	10,588.08	10,588.08	6,735.47
	Grade Crossing Elim.-Proj. Payments			
08	Other Expense	634,131.76	634,131.76	819.47
	Grade Crossing Elim.-Force Acct. Wk.			
69	Equip. Rental & Stores Mat.	46.12	46.12	-
09	Other Expense	68.94	68.94	-
		<u>115.06</u>	<u>115.06</u>	<u>-</u>
	Access Roads-Land Damages			
10	Other Expense	41,613.79	41,613.79	21,164.07
	Access Roads-Project Payments			
11	Other Expense	205,676.75	205,676.75	152,643.70
	Access Roads-Force Acct. Work			
42	Personal Services	456.34	456.34	23.06
72	Equip. Rental & Stores Mat.	5,415.47	5,415.47	55.38
12	Other Expense	2,084.31	2,084.31	665.55
		<u>7,956.12</u>	<u>7,956.12</u>	<u>743.99</u>

		<u>Amount</u> <u>Appropriated</u>	<u>Amount</u> <u>Allotted</u>	<u>Total</u> <u>Expenditures</u>
	<u>Allocation Title</u>			
10	Fed. Aid Hwy. Proj. (cont'd)			
	Access Roads-Force Acct. Work			
	100% Reimb.			
45	Personal Services	3,231.88	3,231.88	1,484.16
75	Equip. Rental & Stores Mat.	15,654.64	15,654.64	11,857.21
15	Other Expense	5,112.00	5,112.00	1,325.00
		<u>23,998.52</u>	<u>23,998.52</u>	<u>14,666.37</u>
	Secondary Roads-Land Damages			
	100% Reimb.			
19	Other Expense	25.51	25.51	25.51
	Secondary Roads-Proj. Payments			
	100% Reimb.			
20	Other Expense	66,840.05	66,840.05	45,727.00
	Primary Roads-Land Damages			
	100% Reimb.			
25	Other Expense	22,000.00	22,000.00	-
	Primary Roads-Proj. Payments			
	100% Reimb.			
26	Other Expense	501,500.00	501,500.00	-
	<u>Total</u>	<u>2,303,751.07</u>	<u>2,197,671.21</u>	<u>295,918.66</u>

		<u>Amount</u> <u>Appropriated</u>	<u>Amount</u> <u>Allotted</u>	<u>Total</u> <u>Expenditures</u>
	<u>Allocation Title</u>			
11	Primary Roads Const. non F.A.			
	Land Damages			
01	Other Expense	150.00	150.00	112.15
	Project Payments			
02	Other Expense	11,493.79	11,493.79	-
	Force Account Work			
33	Personal Services	206.37	206.37	165.81
63	Equip. Rental & Stores Mat.	2,449.84	2,449.84	1,966.28
		<u>2,656.21</u>	<u>2,656.21</u>	<u>2,132.09</u>
	Total	<u>14,300.00</u>	<u>14,300.00</u>	<u>2,244.24</u>
17	Const. & Repair Town & Co. Ways (Chap. 90)			
	Project Payments			
32	Personal Services	100.00	100.00	31.66
62	Equip. Rental & Stores Mat.	2,162.12	2,162.12	2,063.66
02	Other Expense	466,978.25	466,978.25	38,745.17
		<u>469,240.37</u>	<u>469,240.37</u>	<u>40,840.49</u>
	Force Account Work			
33	Personal Services	352.23	352.23	284.99
63	Equip. Rental & Stores Mat.	49.12	49.12	39.02
03	Other Expense	108.80	108.80	108.80
		<u>510.15</u>	<u>510.15</u>	<u>432.81</u>
	Total	<u>469,750.52</u>	<u>469,750.52</u>	<u>41,273.30</u>
18	Repair & Imp. of Public Ways (Ch. 81)			
	Project Payments			
02	Other Expense	1,145,125.00	1,145,125.00	1,137,375.00

		<u>Amount</u> <u>Appropriated</u>	<u>Amount</u> <u>Allotted</u>	<u>Total</u> <u>Expenditures</u>
	<u>Allocation Title</u>			
30	Special Projects			
	State Highways-Hurricane & Flood			
	Land Damages			
07	Other Expense	200.00	-	-
	State Highways-Hurricane & Flood			
	Project Payments			
08	Other Expense	1,582.82	-	-
	Town & County Ways-Hurricane			
	& Flood-Project Payments			
14	Other Expense	501.94	-	-
	Public Works Program, Grade			
	Crossing Elim.-Land Damages			
16	Other Expense	601.00	601.00	325.00
	Public Works Program, Grade			
	Crossing Elim.-Project Payments			
17	Other Expense	24,160.02	22,192.86	19,593.27
	Total	27,045.78	22,793.86	19,918.27
	Total Highway Operating			
	Expenditures	10,131,498.62	10,021,166.84	7,556,104.00

	<u>Allocation Title</u>	<u>Amount Appropriated</u>	<u>Amount Allotted</u>	<u>Total Expenditures</u>
02	Highways Eng. & Adm.			
	Outdoor Advertising Control			
32	Personal Services	17,507.92	17,507.92	16,786.68
62	Equip. Rental & Stores Mat.	2,660.00	2,660.00	2,504.62
02	Other Expense	800.00	800.00	306.71
	<u>Total</u>	<u>20,967.92</u>	<u>20,967.92</u>	<u>19,598.01</u>
30	Special Projects			
	Bedford Airport Acquisition-			
	Land Damages			
01	Other Expense	10,202.99	100.00	100.00
	<u>Total</u>	<u>10,202.99</u>	<u>100.00</u>	<u>100.00</u>
	<u>Total General Revenue Expenditures</u>	<u>31,170.91</u>	<u>21,067.92</u>	<u>19,698.01</u>

Amount <u>Appropriated</u>	Amount <u>Allotted</u>	Total <u>Expenditures</u>
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Allocation Title

SUMMARY OF STORES & EQUIPMENT OPERATIONS

CHARGES

50	Stores & Equipment Operation			
	Stores & Equipment Overhead			
31	Personal Services	123,350.20A	123,350.20	140,009.36
61	Equip. Rental & Stores Mat.	24,691.00A	24,691.00	31,682.74
01	Other Expense	33,651.25A	33,651.25	34,783.65
		<u>181,692.45</u>	<u>181,692.45</u>	<u>206,475.75</u>
	Equip. Operation & Maintenance			
32	Personal Services	93,219.72A	93,219.72	86,051.65
62	Equip. Rental & Stores Mat.	122,459.10A	122,459.10	258,552.34
02	Other Expense	549,109.96A	549,109.96	327,859.32
92	Depreciation Expense	-	-	256,211.19
		<u>764,788.78</u>	<u>764,788.78</u>	<u>928,674.50</u>
	Traffic Signs & Signals Mfg.			
33	Personal Services	6,805.16A	6,805.16	4,336.64
63	Equip. Rental & Stores Mat.	11,063.30A	11,063.30	8,941.49
03	Other Expense	-	-	-
		<u>17,868.46</u>	<u>17,868.46</u>	<u>13,278.13</u>
	Other Stock & Equip. Mfg.			
34	Personal Services	46,529.82A	46,529.82	27,853.46
64	Equip. Rental & Stores Mat.	80,382.12A	80,382.12	45,814.87
04	Other Expense	4,680.00A	4,680.00	23,076.77
		<u>131,591.94</u>	<u>131,591.94</u>	<u>96,745.10</u>
	Nursery Operation & Maintenance			
35	Personal Services	4,185.00A	4,185.00	2,884.69
65	Equip. Rental & Stores Mat.	10,800.00A	10,800.00	1,031.56
05	Other Expense	200.00A	200.00	-
		<u>15,185.00</u>	<u>15,185.00</u>	<u>3,916.25</u>

A-The Legislature placed no specific limit on expenditures from these accounts. The amounts shown here as "Amount Appropriated" are the amounts requested as necessary for these purposes in the 1945 Highway Budget Request of the Department of Public Works. As provided in appropriation (2900-50, 2900-55) these amounts must be charged against the other appropriations listed above and in this statement they have been distributed as provided.

		Amount <u>Appropriated</u>	Amount <u>Allotted</u>	Total <u>Expenditures</u>
<u>Allocation Title</u>				
<u>SUMMARY OF STORES & EQUIPMENT OPERATIONS (cont'd)</u>				
50	Stores & Equipment Operation			
	Stores Purchases			
66	Equip. Rental & Stores Mat.	-	-	119,246.56
06	Other Expense	835,300.00A	835,300.00	730,842.27
		835,300.00	835,300.00	850,088.83
	Reimbursable Services other Depts.			
37	Personal Services	9,975.72A	9,975.72	81,246.72
67	Equip. Rental & Stores Mat.	23,121.10A	23,121.10	64,506.47
07	Other Expense	660.00A	660.00	11,793.41
		33,756.82	33,756.82	157,546.60
	Vacation, Sick Leave & Other Compensated Absence			
08	Personal Services	-	-	53,075.02
65 00	Under or Over Distribution Labor P. R.	-	-	10.21
	Total Stores & Equipment Expenditures	1,980,183.45	1,980,183.45	2,309,810.39

A-See footnote previous page.

GENERAL STATEMENT

STATE HIGHWAYS

State highway locations were altered in three towns without change of mileage. Discontinuances of 1.13 miles of State highway were made in two towns. Two county and town layouts were made.

Total State highway mileage as of July 1, 1945 is 1927.15 miles.

MILEAGE OF SURFACE COMPLETED (BY CLASS) PERIOD JULY 1, 1944 - JUNE 30, 1945

TYPE OF SURFACE	CONST.	RECON.	ACCESS	WIDEN.	CHAP. 90	MILES			
						1944-45	1943-	1941-43	1941
BITUMINOUS MACADAM		0.206	0.440		1.010	1.656	10.0	30.781	50.587
BITUMINOUS CONCRETE		1.732	1.014		0.704	3.480	6.7	14.652	28.607
PENOLITHIC								3.439	12.004
GRAVEL								0.928	10.143
GRAVEL WITH BIT. SURF. TREATMENT					1.982	1.982	0.2	20.579	15.604
CEMENT CONCRETE		0.014				0.014	2.2	0.200	2.172
STONE OR GRAVEL RETREAD							3.1	3.809	27.695
BITUMINOUS ROAD-MIX	1.993				0.604	2.597	9.4	14.024	21.179
SHEET ASPHALT								0.264	0.152
JULY 1, 1944 TO JUNE 30, 1945						9.729			
JULY 1, 1943 TO JUNE 30, 1944							31.5		
DEC. 1, 1941 TO JUNE 30, 1943								88.676	
DEC. 1, 1940 TO NOV. 30, 1941									168.143

MILEAGE AND TYPE OF SURFACE COMPLETED BY DISTRICTS JULY 1, 1944 TO JUNE 30, 5

Dist.	CLASS	BIT. MAC.	BIT. CONC.	CEM. CONC.	BIT. TREAT GRAVEL	STONE GRAVEL RETREAD	BIT. ROAD MIX	PEN- LITHIC	SHEET ASHALT	GRAVEL	CONST.	RECON.	CHAP. 90	ACCESS	WIDEN.	TOTALS BY DISTRICTS			
																1945	1943-44	1941-1943	1941 Nov. 30th
1	CONST. RECON. ACCESS CHAP. 90 WIDEN.																	9.117	13.311
2	CONST. RECON. ACCESS CHAP. 90 WIDEN.	1.010	0.702										1.712			1	3.985	20.039	33.652
3	CONST. RECON. ACCESS CHAP. 90 WIDEN.				1.861		0.604						2.465			25	0.275	7.806	26.560
4	CONST. RECON. ACCESS CHAP. 90 WIDEN.	0.206	0.641 1.044 0.002	0.014								0.861	0.002	1.044		17	1.031	10.513	31.137
5	CONST. RECON. ACCESS CHAP. 90 WIDEN.	0.440												0.440		00		9.230	16.946
6	CONST. RECON. ACCESS CHAP. 90 WIDEN.		1.091										1.091			1	8.550	13.473	11.424
7	CONST. RECON. ACCESS CHAP. 90 WIDEN.				0.121		1.993				1.993		0.121			24	18.074	18.498	35.113
1944-1945 Fiscal Yr. Totals		1.656	3.480	0.014	1.982		2.597				1.993	0.861	5.391	1.484		99	31.915	88.676	168.143

															Engineering Advice			
															Towns & Cities			
															1944-1945	1943-1944		
1943-44 Totals	10.050	6.757	2.287	0.275	3.129	9.417					20.172		0.415	11.328				
1941-43 Totals	30.781	14.652	0.200	20.579	3.809	14.024	3.439	0.264	0.928	13.928	9.798	42.836	18.479	3.365				
1941 Totals	50.587	28.607	2.172	15.604	27.695	21.179	12.004	0.152	10.143	29.326	15.928	119.068		2.218				

SURVEYS, PLANS AND ESTIMATES

During the year ending June 30, 1945 preliminary surveys, plans and estimates were made as follows:

For State Highway Construction

Preliminary surveys in 3 cities and 17 towns,	38.712 miles
Preliminary plans in 1 city and 18 towns,	36.884 miles
Preliminary estimates in 12 towns,	10.291 miles
Final surveys in 1 city and 1 town,	2.121 miles

For State Highway Reconstruction

Preliminary surveys in 1 city and 27 towns,	47.621 miles
Preliminary plans in 1 city and 20 towns,	38.753 miles
Preliminary estimates in 2 cities and 8 towns,	16.553 miles

Advice to Outside Agencies

Preliminary surveys in 1 city and 5 towns,	1.710 miles
Preliminary plans in 2 cities and 3 towns,	2.438 miles
Preliminary estimates in 2 cities and 2 towns,	0.845 miles
Lines and grades in 3 cities and 1 town,	1.186 miles
Final surveys in 1 city,	0.629 miles

State Highway Construction, Reconnaissance

Surveys and plans in 10 towns,	38.712 miles
Special Reconnaissance Studies in 11 cities and 40 towns,	180.200 miles

State Highway Reconstruction, Reconnaissance

Surveys and plans in 1 city and 3 towns,	3.731 miles
Special Reconnaissance Studies in 1 city and 6 towns,	16.800 miles

Grade Crossing Elimination

Preliminary surveys in 1 city and 2 towns,	0.845 miles
Regular plans in 3 towns,	1.223 miles
Preliminary estimates in 1 town,	0.511 miles

Chapter 75, Acts of 1941

Reconnaissance Study in 1 city,	3.200 miles
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Chapter 90, Section 34, as amended

Preliminary surveys in 4 cities and 41 towns,	41.896 miles
Preliminary plans in 2 cities and 19 towns,	15.972 miles
Preliminary estimates in 1 city and 7 towns,	6.402 miles
Lines and grades in 1 city and 11 towns,	5.073 miles
Final estimates in 1 city and 2 towns,	0.604 miles

Grade Crossing Elimination, Reconnaissance

Reconnaissance plan in 1 town,	0.928 miles
Special Reconnaissance Studies in 60 towns and 31 cities	52.000 miles

Access Roads

Preliminary survey in 1 city,	1.051 miles
Lines and grades in 1 city and 1 town,	1.307 miles
Final estimates in 4 cities and 2 towns,	7.845 miles

Hurricane

Preliminary surveys in 5 towns,	6.669 miles
Preliminary plans in 4 towns,	0.987 miles
Preliminary estimates in 3 towns,	0.866 miles
Lines and grades in 3 towns,	0.866 miles

Chapter 90, Maintenance

Preliminary estimates in 1 city and 193 towns,	1008.843 miles
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State Highway Maintenance

Preliminary survey and plans in 2 towns,	0.720 miles
Preliminary estimates in 1 city and 1 town	2.273 miles

PERMITS. There were 1,065 permits issued during the period for opening or occupying State Highways for various purposes.

PETITIONS, MEETINGS AND HEARINGS

In addition to the regular weekly meetings of the Department throughout the year, numerous hearings and conferences have been held, including the annual hearings in the several counties in the Commonwealth for the open discussion of questions relating to the public ways, as required by Section 1, Chapter 81, General Laws, Ter. Ed.; appeals from the action taken by the Registrar of Motor Vehicles in the suspension or revocation of certain licenses to operate motor vehicles in 225 cases; on the matter of eliminating the grade crossing at Elm Street in Templeton; on the matter of laying out State highways in Templeton, Winchendon, Huntington and Chelmsford; and on the matter of an application for the erection and maintenance of an advertising sign in Watertown.

Petitions were received and contracts signed during the year as follows:

	<u>Petitions</u>	<u>Contracts</u>
Highways and Bridges	--	12
Work under section 34, chapter 90, General Laws,	--	147
Work under section 26, Chapter 81, General Laws,	179	179
Miscellaneous	--	25
	<u>179</u>	<u>363</u>

CONSTRUCTION AND RECONSTRUCTION OF STATE HIGHWAYS

(Chapter 81, General Laws, as amended)

The following contracts were entered into during the year for the construction and reconstruction of State highways, and work incidental thereto, in various municipalities:

Newburyport-Salisbury

August 15, 1944, contract made with Alfred C. John, of Cambridge, for inspecting abutments and piers at the Newburyport-Salisbury Drawbridge. The proposal amounted to \$1,140.00. Work completed August 30, 1944. Expenditure during fiscal year, \$912.00.

Williamstown

September 5, 1944, contract made with the Lacios Painting Contracting Company, Inc., of Boston, for cleaning and painting Moody Bridge in the town of Williamstown. The proposal amounted to \$5,000.00. Work practically completed. Expenditure during fiscal year, \$5,000.00.

Dennis

October 5, 1944, contract made with John Gallo, of Bourne, for constructing a temporary bridge over Swan Pond River, and the approaches thereto, on the State highway in the town of Dennis. The proposal amounted to \$5,800.00. Work completed October 27, 1944. Expenditure during fiscal year, \$5,800.00.

Fairhaven-New Bedford

October 17, 1944, contract made with J. A. Singarella Co., of Boston, for repairing the Fairhaven-New Bedford Bridge in the town of Fairhaven and city of New Bedford. The proposal amounted to \$6,897.00. Work completed April 21, 1945. Expenditure during fiscal year, \$7,096.35.

Mashpee

October 31, 1944, contract made with David J. Roach, of East Bridgewater, for reconstructing a section of State highway on Waquoit Road, about 10,655 feet in length, in the town of Mashpee. The proposal amounted to \$60,209.80. Work completed September 8, 1945. Expenditure during fiscal year, \$38,867.95.

Lee

November 9, 1944, contract made with Webster & Webster, of East Hartford, Conn., for constructing a stock fence and rock excavation on property of George Watson in the town of Lee. The proposal amounted to \$152.40. Work completed November 15, 1944. Expenditure during fiscal year \$122.15.

Newburyport

April 10, 1945, contract made with Coleman Company, of Boston, for installing two doors at the storeroom of the bridge at the Merrimac Street Overpass in the city of Newburyport. The proposal amounted to \$474.00. Work practically completed. Expenditure during fiscal year, \$473.90.

Oak Bluffs

June 26, 1945, contract made with Berke Moore Company, Inc., of Brookline, for resurfacing about 980 feet of State highway on Sea View Avenue in the town of Oak Bluffs. The proposal amounted to \$25,890.50. Work just commenced. Expenditure during fiscal year, Nothing.

Russell

June 26, 1945, contract made with Ley Construction Company, of Springfield, for restoring slope within the limits of and adjoining the State highway in the town of Russell. The proposal amounted to \$879.50. Work not yet commenced. Expenditure during fiscal year, Nothing.

Bristol and Norfolk Counties

June 29, 1945, contract made with the Aldrich Tree Service, Inc., of Dedham, for trimming trees on State highways in Bristol and Norfolk Counties. The proposal amounted to \$6,577.50. Work not yet commenced. Expenditure during fiscal year, Nothing.

July 1, 1944, to June 30, 1945.
MISCELLANEOUS

The following contracts were entered into for miscellaneous work:

July 5, 1944, contract made with C. Bowen, Inc., for moving office furniture in the Public Works Building at 100 Nashua Street in Boston. The proposal amounted to \$130.00. Expenditure during fiscal year, \$130.00.

August 15, 1944, contract made with Rossano Construction Company, of Boston, for installing gasoline and diesel oil tanks at the Maintenance Shop of the Department at Commonwealth Armory in Boston. Work completed September 15, 1944. Expenditure during fiscal year, \$1,074.15.

October 17, 1944, contract made with Aero Service Corporation, of Philadelphia, Pennsylvania, for making an aerial survey, including maps and mosaics, between the towns of Russell and Lee. The proposal amounted to \$12,895.00. Expenditure during fiscal year, \$12,895.00.

January 2, 1945, contract made with the Legislative Reporting Service, of Boston, for furnishing service relating to legislative bills. Expenditure during fiscal year, Nothing.

April 10, 1945, contract made with the Boston Plate and Window Glass Company, of Boston, ^{for} furnishing and installing three lights of hammered wire glass in skylights on Gaffney Street side of Maintenance Shop of Department at Commonwealth Armory in Boston. Expenditure during fiscal year, \$62.00.

May 15, 1945, contract made with Patrick J. Spillane, of Reading, for furnishing and erecting steel sash at Commonwealth Armory in Boston. The proposal amounted to \$898.00. Expenditure during fiscal year, Nothing.

May 15, 1945, contract made with Raymond E. Feole, of Providence, R. I., for furnishing and installing two overhead doors at the garage of the Department in the town of Middleboro. The proposal amounted to \$880.00. Expenditure during fiscal year, Nothing.

*January 23, 1945, contract made with Angelo Palazzo, of Boston, for reconditioning tools stored in the Department Garage at Commonwealth Armory in the city of Boston. The proposal amounted to \$235.50. Work not yet commenced. Expenditure during fiscal year, Nothing.

HURRICANE DAMAGE REPAIR

The following contracts were entered into for the repair of damages as a result of the September hurricane:

Plymouth County, Cohasset, Bourne

October 17, 1944, contract made with Greenough Bros., Inc., of Waltham, for removing stumps and miscellaneous repairs on State highways in Plymouth County and the towns of Cohasset and Bourne. The proposal amounted to \$10,720.00. Work completed December 12, 1944. Expenditure during fiscal year, \$13,384.50.

Barnstable, Yarmouth, Dennis, Harwich, Brewster, Chatham, Orleans, Eastham, Wellfleet, Truro

October 17, 1944, contract made with Louis A. Byrne, of Dennis, for removing stumps and miscellaneous repairs on State highways. The proposal amounted to \$18,250.00. Work completed December 18, 1944. Expenditure during fiscal year, \$25,123.20.

Taunton, Berkley, Freetown, Dartmouth, Westport, Fairhaven, Acushnet, Lakeville

October 17, 1944, contract made with Greenough Bros., Inc., of Waltham, for removing stumps, trees, debris, and miscellaneous repairs on State highways east of the Taunton River. The proposal amounted to \$6,160.00. Work completed January 13, 1945. Expenditure during fiscal year, \$6,133.00.

Bourne, Falmouth, Mashpee, Sandwich

October 17, 1944, contract made with Frederick V. Lawrence, of Falmouth, for removing stumps and miscellaneous repairs on State highways south of Cape Cod Canal in Bourne, Falmouth, Mashpee and Sandwich. The proposal amounted to \$13,900.00. Work completed December 27, 1944. Expenditure during fiscal year, \$16,906.00.

Martha's Vineyard Island

October 17, 1944, contract made with Turner & Breivogel, of Falmouth, for removing stumps and miscellaneous repairs on State highways on Martha's Vineyard Island. The proposal amounted to \$13,654.00. Work about three-fourths completed. Expenditure during fiscal year, \$9,420.55.

Easton, Raynham, Taunton, Dighton, Rehoboth, Swansea, Somerset, Seekonk, Norton

November 1, 1944, contract made with Charles A. Haggerty, of Shrewsbury, for removing stumps, trees, debris and miscellaneous repairs on State highways. The proposal amounted to \$5,612.50. Work about four-fifths completed. Expenditure during fiscal year, \$4,337.55.

Bristol County

November 9, 1944, contract made with Matthews Brothers, of Medford, for trimming trees on State highways in Bristol County. The proposal amounted to \$12,135.00. Work completed March 15, 1945. Expenditure during fiscal year, \$12,108.50.

Martha's Vineyard

November 14, 1944, contract made with E. Malcolm Munson, of Dartmouth, for trimming trees on State highways on the Island of Martha's Vineyard. The proposal amounted to \$12,900.00. Work completed February 21, 1945. Expenditure during fiscal year, \$12,074.70.

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Yarmouth, Dennis, Brewster, Orleans, Chatham, Harwich
February 7, 1945, contract made with The F. A. Bartlett Tree
Expert Company, of Cambridge, for trimming trees on State highways
in Yarmouth, Dennis, Brewster, Orleans, Chatham and Harwich. The
proposal amounted to \$8,842.50. Work practically completed.
Expenditure during fiscal year, \$9,054.33.

Plymouth County

February 7, 1945, contract made with Aldrich Tree Service, Inc.,
of Dedham, for trimming trees on State highways in Plymouth County.
The proposal amounted to \$8,968.75. Work completed June 13, 1945.
Expenditure during fiscal year, \$9,075.98.

Middlesex County

February 7, 1945, contract made with the New England Tree
Expert Company, Inc., of Boston, for trimming trees on State highways,
in Middlesex County. The proposal amounted to \$9,675.00. Work
about one-third completed. Expenditure during fiscal year, \$2,400.96.

Bourne, Falmouth, Sandwich, Mashpee, Barnstable
February 7, 1945, contract made with The F. A. Bartlett Tree
Expert Company, of Cambridge, for trimming trees on State highways
in Bourne, Falmouth, Sandwich, Mashpee and Barnstable. The proposal
amounted to \$8,842.50. Work completed May 24, 1945. Expenditure
during fiscal year, \$9,025.53.

ACCESS ROAD AND PRIMARY ROAD PROJECTS

The following contract was entered into for an Access Road in the town of Framingham; the Federal Government paying 100% of the cost of construction:

July 13, 1944, contract made with San-Vel Contracting Co., of Littleton, for constructing a section of highway on Winter Street in the town of Framingham. The proposal amounted to \$39,593.50. Work completed May 14, 1945. Expenditure during fiscal year, \$39,812.91.

The following contract was entered into (Primary Road Project) for the construction of a bridge and approaches in the towns of Agawam and West Springfield; the Federal Government paying 50% of the cost of construction:

June 14, 1945, contract made with Daniel O'Connell's Sons, Inc., of Holyoke, for constructing a bridge over the Westfield River, known as Feeding Hills Bridge, and about 380 feet of approaches thereto, in the towns of Agawam and West Springfield; the surface of the approaches consisting of bituminous macadam, and the surface on the bridge consisting of bituminous concrete. The proposal amounted to \$203,576.94. Work not yet commenced. Expenditure during fiscal year, Nothing.

~~July 1, 1944, to June 30, 1945.~~

WASH BORINGS

The following contracts were entered into for taking wash borings in various municipalities:

<u>Town</u>	<u>Date</u>	<u>Contractor</u>	<u>Expenditure during fiscal year</u>
Belchertown)	August 8, 1944	Raymond Concrete Pile Co.,	\$2,086.80
Buckland)		of Boston.	
Charlemont)			
Chicopee)			
Shelburne)			
Ware)			
Dennis)	October 17, 1944	Raymond Concrete Pile Co.,	1,558.00
Falmouth)		of Boston.	
Raynham)			
Wakefield)			
Taunton)			
Lunenburg	December 26, 1944	B.F. Smith and Co., of Boston	357.51
Gloucester)			
Danvers)	June 5, 1945	Chas. A. Leary Co., of Boston.	1,473.00

MATERIALS TESTING LABORATORY

The Materials Testing Laboratory started its work this year under a somewhat curtailed program. With the cessation of hostilities, however, some road materials were released which brought an increase in samples to be tested. The total tests for the year numbered 1300.

A cooperative research program was carried on to endeavor to improve the manufacture of concrete cribbing.

The research on air-entraining cement and anti-stripping compounds was continued.

A large amount of soils testing has been done in connection with the General Edward Lawrence Logan Airport in East Boston. This is a very important phase of laboratory work and it is hoped that it may be expanded in the future.

In anticipation of an extensive post-war highway program a new 300,000 pound Universal Testing Machine has been purchased, and other equipment is to be secured in the near future to bring this laboratory up to the level of State highway laboratories of other states.

T R A F F I C

Analysis of State Highway Accident RecordsTotal Accidents in Massachusetts

<u>Year</u>	<u>Non-Fatal No. Accidents</u>	<u>Fatal No. Accidents</u>	<u>No. Persons Killed</u>
1943	15,585	417	452
1944	16,664	432	472

State Highway Accidents

<u>Year</u>	<u>Total Accidents</u>	<u>Persons Killed</u>
1943	2233	120
1944	2222	135

During the ^{Calendar} year 1944 total accidents in Massachusetts increased 7% and fatalities increased 4% as compared with 1943. In the same period total accidents on State highways decreased 1% and fatalities increased 12%.

While accidents on State highways showed a slight reduction in 1944, the trend of fatalities on these highways was reversed and started upward for the first time since the beginning of the war.

The tabulation of the State highway accidents continues to be made and a summary is prepared each month for use in the traffic office and for the State Police.

Plotting the Accident Diagrams on
Scalar Maps

This is a regular part of the work of analysis of accidents and the maps are used continually for checking the trends of accidents on State highways. They supply the information usually obtained from a spot map as well as give considerable other information regarding these accidents.

Monthly Report to State Police

Monthly reports have been furnished the State Police on State highway accidents. This record includes collisions reported by Registry Inspectors, operators and local police.

The ending of the war in Europe in May, 1945, meant the lifting of dimout restrictions. Following this announcement the Traffic Division had to immediately begin the removal of all the signs which had been erected in the dimout area used during the period of restrictions. All masks also had to be removed from State-owned signals.

Immediately following this action, requests began to pour in for the resumption of full operation of many signals. In each case this called for an investigation of traffic conditions ^{by the Traffic Division} and reports to be submitted to the Commissioners with recommendations for the revision or retention of the operation of such signals.

In August, 1945, the war with Japan ended. Immediately thereafter restrictions on gasoline were lifted and motor travel increased. All of this brought extra work on the Traffic Division as plans had to be made for the replacement of old signs and the erection of many new ones, with particular attention to pavement markings for the safety of the travelling public.

Traffic Signs, Lights, Markings, Signal Systems and Regulations

Under the provisions of Chapters 85 and 90 of the General Laws, as amended, certain duties are placed upon the Department in order to secure uniformity in highway traffic signs, signals, markings and regulations.

New Signal Installed

Holyoke	Pedestrian crossing signal Route 5 at Beaven Kelly Home for Aged on June 16, 1944
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New Flashers

Westfield	2 Neon flashing arrows were installed on the curve on Route 20 on September 27, 1944
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Revere	2 Flashing warning beacons were installed at each end of the center girder at the Point of Pines Bridge on Route 1A on December 13, 1944
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Quincy	On Route 3 at East Howard Street in cooperation with the City of Quincy, on March 1, 1945 Semi-actuated traffic control signal
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Chelmsford	A semi-actuated pedestrian traffic control was installed on Route 110 at Stedman Street on September 27, 1945
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Methuen	2 New flashing warning beacons were installed at the junction of Route 110 and Riverside Drive on June 22, 1945
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Agawam	New flashing neon arrow was installed at a curve on River Road on September 27, 1945
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Hull	Traffic control signal located at the junction of Nantasket Avenue and Bay Street was converted to a flashing warning beacon on July 18, 1945
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Signs Erected

Warning, regulatory and route markers 903

Traffic Markings in Miles

Traffic white lines painted 727 miles

Traffic control signals, signs and regulations were approved
by the Department as follows:

Traffic Signals	7
Traffic Beacons	9
Traffic Signs	16
Traffic Markings	7
Traffic Rules and Regulations	149
Isolated Stop Signs	9
Safety Zones	7

FEDERAL AID IN CONSTRUCTING HIGHWAYS

STATEMENTS AS TO THE ACTS OF CONGRESS AND OF THE MASSACHUSETTS LEGISLATURE IN RESPECT TO COOPERATION BETWEEN THE UNITED STATES AND THE COMMONWEALTH OF MASSACHUSETTS IN THE CONSTRUCTION OF HIGHWAYS UNDER THE FEDERAL HIGHWAY ACT APPROVED NOVEMBER 9, 1921 MAY BE FOUND IN THE ANNUAL REPORTS OF THE DEPARTMENT OF PUBLIC WORKS FOR THE YEARS 1920 TO DATE. A DETAILED STATEMENT OF THE FEDERAL AID ALLOTMENTS AND PROJECTS APPEARS IN THE DEPARTMENT REPORT FOR THE FISCAL YEAR 1933.

ADDITIONS AND ALTERATIONS FOR THE FISCAL YEARS 1934 TO 1939 INCLUSIVE AND A SUMMARY OF FEDERAL AID ALLOTMENTS APPEAR IN THE DEPARTMENT REPORT FOR THE FISCAL YEAR 1938. ADDITIONS AND ALTERATIONS FOR THE FOLLOWING YEARS APPEAR IN EACH ANNUAL REPORT OF THE DEPARTMENT.

FOLLOWING IS A STATEMENT OF FEDERAL AID FUNDS FOR PROJECT FINANCED BY REGULAR FEDERAL AID FUNDS FOR THE PERIOD JULY 1, 1944 TO JUNE 30, 1945.

STATEMENT OF FEDERAL AID FUNDS
JULY 1, 1944 TO JUNE 30, 1945

F.A. No.	TOWN - CITY	Mileage	Alotment	Amount Received	Balance Due
FAP 136D(1)	AGAWAM - WEST SPRINGFIELD	0.135	122,786.82	104,521.23	18,265.59
	TOTALS	0.135	122,786.82	104,521.23	18,265.59

- BRIDGES -

Annual Report for Fiscal Year Ending June 30, 1945

During the fiscal year the Department awarded contracts for 5 new structures; awarded contracts for alterations or repairs to 5 structures; examined and reported on 7 structures at the request of local authorities; examined and reported on 7 structures at the request of Department authorities; and made preliminary studies, estimates or plans for building or altering 70 structures in the near future.

The various cities and towns, the locations therein, and the character of work follows:

Contracts for New Structures

<u>Acworth</u>	At West Springfield line, Feeding Hills bridge over Westfield River, steel stringer bridge with concrete deck, two 100-foot spans and two 67-foot spans.
<u>Chicopee</u>	Montgomery Street over a brook, one 10-foot span concrete box culvert.
<u>Dennis</u>	Auto Route 28 over Swan Pond River, seven 10-foot spans, wood stringer bridge.
<u>Falmouth</u>	Nannuhant Road over Bowen's Pond Inlet, eight 15-foot spans, creosoted pile bridge.
<u>Hopkinton</u>	At Southborough line, one 36-foot span steel stringer bridge with concrete deck.

Contracts for Alterations or Repairs to Existing Structures

<u>Chatham</u>	Bridge Street over Mitchell's River, repairs to pile trestle bridge.
<u>Fairhaven</u>	At New Bedford line, repairs to fences and sidewalks of Fairhaven Bridge.
<u>Lenox</u>	Replacing floor system on Lenoxdale bridge.
<u>Marshfield</u>	Beach Street over Cut River, replacing the deck of the bridge.
<u>Oak Bluffs</u>	Repairs to sea walls.

Annual Report
Year Ending 6/30/45

Examinations, Reports and Estimates at the
Request of Local Authorities

Agawan

At West Springfield line, Mitteneague Bridge.

Dartmouth

Sidewalk on approach to Padanarum Bridge over Apponagansett River.

Fairhaven

At New Bedford line, Coggeshall Street bridge over Acushnet River.

Lee

Hurlbut Mill Bridge over Housatonic River.

Northborough

At Westborough line, Milk Street bridge over Assabet River.

Palmer

Main Street bridge over Quabog River.

Raynham

At Taunton line, South Street over Taunton River.

Examination, Report and Estimates at
Request of Department

Charlmont

At Florida line, Florida Bridge over Deerfield River.

Charlmont

Bissell's Bridge, Davis Mine Road over Mill Brook.

Deerfield

At Sunderland line, report on condition of crib walls adjacent to bridge.

Dennis

Upper County Road bridge over Swan Pond River.

Gloucester

Lobster Cove Bridge.

Marshfield

At Scituate line, Humarock Bridge.

Weymouth

Main Street over tracks of N.Y., N.H., & H.R.R., report on condition of crib walls adjacent to bridge.

Contemplated Structures for which Preliminary
Studies, Estimates or Plans Have Been Made

Agawan

Repairs to Agawan abutment of Mitteneague bridge.

Attleboro

South Main Street over tracks of N.Y., N.H. & H.R.R.

Ayer

Main Street over tracks of Boston & Maine Railroad.

Belchertown

Granby Road over tracks of Boston & Maine Railroad and Central Vermont Railroad.

Annual Report
Year Ending 6/30/45

<u>Beverly</u>	Five bridges on Beverly by-pass.
<u>Braintree</u>	Washington Street over tracks of N.Y., N.H. & H.R.R.
<u>Bridgfield</u>	Two grade separations between Auto Route 20 and service roads.
<u>Buckland</u>	At Charlemont line, Scott's Bridge over Deerfield River.
<u>Buckland</u>	At Shelburne line, by-pass over Deerfield River and Main Street.
<u>Chicopee</u>	Chicopee Street over tracks of Boston & Maine Railroad.
<u>Clarksburg</u>	Red Mill Bridge over North Branch Hoosic River.
<u>Danvers</u>	Grade separation at intersection of Maple Street and Newburyport Turnpike.
<u>Danvers</u>	Newburyport Turnpike over Andover Street.
<u>Dennis</u>	Auto Route 28 over Swan Pond River.
<u>Easthampton</u>	Northampton Street over Menhan River.
<u>Gloucester</u>	Five bridges on new road.
<u>Great Barrington</u>	Auto Route 7 over Green River and over two brooks.
<u>Greenfield</u>	At Montague line, Montague City Bridge.
<u>Hanson</u>	Washington Street bridge over Poor Meadow River.
<u>Harvard</u>	At Shirley line, Mitchelville Bridge over Nashua River.
<u>Hopkinton</u>	At Southborough line, over Sudbury River.
<u>Lanesborough</u>	Main Street over West Branch of Housatonic River.
<u>Lee</u>	Auto Route 20 over a brook.
<u>Lincoln</u>	Baker's Bridge over tracks of Boston & Maine Railroad.
<u>Lynnfield</u>	Widening of present bridges on Northern Circumferential Highway over Walnut Street and over Sumner Street.

Annual Report
Year Ending 6/30/45

<u>Lynnfield</u>	Auto Route 128 over Main Street and at Wakefield line over Saugus River.
<u>Nantucket</u>	Madaket Road over Hither Creek.
<u>New Ashford</u>	Eight bridges on proposed reconstruction of Auto Route 7.
<u>Peabody</u>	Grade separation at Newburyport Turnpike and Lowell Street.
<u>Raynham</u>	At Taunton line, South Street over Taunton River.
<u>Sheffield</u>	Auto Route 7 over a brook.
<u>Shelburne</u>	Mechanic Street over Buckland Road.
<u>Sterling</u>	Over tracks of Boston & Maine Railroad at Sterling Junction.
<u>Sturbridge</u>	Brinfield Road over Outlet to Long Pond.
<u>Taunton</u>	County Street over tracks of N.Y.N.H. & H. R.R. road.
<u>Wakefield</u>	Three bridges on Auto Route 128.
<u>Walpole</u>	Main Street over N.Y.N.H. & H.R.R.
<u>Ware</u>	Tracks of B&M over highway at Gibbs Crossing.
<u>Wareham</u>	Sandwich Road over Agawan River.
<u>Warren</u>	Ware Road over Cheney Brook.
<u>West Stockbridge</u>	Three bridges on by-pass.
<u>Williamstown</u>	Four bridges on Auto Route 7.
<u>Windsor</u>	Dalton Road over East Branch Housatonic River.

CONSTRUCTION OF TOWN AND COUNTY WAYS
(Section 34, Chapter 90, General Laws, Ter. Ed.)

During the year the Department has contracted for work to be done in the towns/cities named in the following table, which also shows the type of road or nature of work, the length contracted for, and the allotments or contributions by the State, towns/cities and counties:

Counties and Towns	State	Contributions Town	County	Type of Road or Nature of Work	Length con- tracted for (Feet)
<u>Barnstable County</u>					
Barnstable	\$ 5,500.00	\$ 2,750.00	\$ 2,750.00	Hurricane Damage Repairs	2,232
Barnstable	6,000.00	3,000.00	3,000.00	Hurricane Damage Repairs	1,165
Dennis	3,000.00	1,500.00	1,500.00	Hurricane Damage Repairs	-
Dennis-Yarmouth	1,000.00	-	1,000.00	Hurricane Damage Repairs	-
<u>Berkshire County</u>					
Alford	400.00	400.00	400.00	Maintenance	7,400
Becket	600.00	600.00	600.00	Maintenance	15,450
Egremont	200.00	200.00	200.00	Maintenance	5,400
Hancock	100.00	100.00	100.00	Bridge Repairs	-
Monterey	500.00	500.00	500.00	Maintenance	9,700
Richmond	400.00	400.00	400.00	Maintenance	8,400
Sandisfield	300.00	300.00	300.00	Maintenance	9,100
Sheffield	800.00	800.00	800.00	Maintenance	21,800
Stockbridge	75.00	75.00	75.00	Maintenance	8,000
Tyringham	200.00	200.00	200.00	Maintenance	5,900
Washington	500.00	250.00	500.00	Maintenance	10,700
<u>Bristol County</u>					
Acushnet	500.00	500.00	500.00	Maintenance	23,909
Berkley	1,000.00	1,000.00	1,000.00	Maintenance	48,064
Dartmouth	500.00	500.00	500.00	Maintenance	21,125
Dighton	700.00	700.00	700.00	Maintenance	56,753
Easton	600.00	600.00	600.00	Maintenance	46,836
Fairhaven	600.00	600.00	600.00	Maintenance	29,975
Freetown	1,000.00	1,000.00	1,000.00	Maintenance	62,801
Mansfield	700.00	700.00	700.00	Maintenance	10,600
North Attleborough	300.00	300.00	300.00	Maintenance	24,305
Norton	400.00	400.00	400.00	Maintenance	13,130
Raynham	500.00	500.00	500.00	Maintenance	16,080
Rehoboth	1,200.00	1,200.00	1,200.00	Maintenance	49,656
Swansea	400.00	400.00	400.00	Maintenance	9,625
Westport	2,100.00	2,100.00	2,100.00	Maintenance	55,637
Westport	7,400.00	3,700.00	3,700.00	Hurricane Damage Repairs	11,458
<u>Dukes County</u>					
Gay Head	400.00	-	400.00	Hurricane Damage Repairs	9,225
Gosnold	4,400.00	2,200.00	2,200.00	Hurricane Damage Repairs	2,200

Counties and Towns

	State	Contributions Town	County	Type of Road or Nature of Work	Length con- tracted for (Feet)
<u>Dukes County</u>					
Oak Bluffs	\$ 2,600.00	\$ 1,300.00	\$ 1,300.00	(Bridge and approaches- repairs	-
Oak Bluffs	2,000.00	2,000.00	-	Grading and Seeding	834
Oak Bluffs	5,200.00	3,000.00	2,200.00	Slope Repairs	900
Oak Bluffs	47,000.00	11,500.00	11,000.00	(Bituminous Concrete - Sea Wall Repairs	3,420
Tisbury	2,450.00	1,225.00	1,225.00	(Bridge and approaches- repairs	-
<u>Essex County</u>					
Amesbury	500.00	1,000.00	-	Maintenance	57,229
Andover	500.00	1,000.00	-	Maintenance	57,397
Boxford	500.00	1,000.00	-	Maintenance	21,225
Danvers	500.00	1,000.00	-	Maintenance	48,025
Hamilton	400.00	800.00	-	Maintenance	45,797
Ipswich	500.00	1,000.00	-	Maintenance	51,767
Lynnfield	500.00	1,000.00	-	Maintenance	43,133
Manchester	500.00	1,000.00	-	Maintenance	4,450
Merrimac	500.00	1,000.00	-	Maintenance	15,235
Methuen	600.00	1,200.00	-	Maintenance	56,905
Middleton	500.00	1,000.00	-	Maintenance	34,888
Nahant	500.00	1,000.00	-	Maintenance	24,900
Newbury	500.00	1,000.00	-	Maintenance	23,257
North Andover	500.00	1,000.00	-	Maintenance	29,210
Rockport	500.00	1,000.00	-	Maintenance	41,786
Rowley	500.00	1,000.00	-	Maintenance	36,411
Salisbury	250.00	500.00	-	Maintenance	31,838
Swampscott	500.00	1,000.00	-	Maintenance	5,200
Topsfield	500.00	1,000.00	-	Maintenance	29,385
Wenham	500.00	1,000.00	-	Maintenance	39,960
<u>Hampden County</u>					
Agawam	1,200.00	1,200.00	1,200.00	Maintenance	27,783
Blendford	500.00	500.00	500.00	Maintenance	10,700
Chester	800.00	800.00	800.00	Maintenance	15,600
Chicopee	10,500.00	5,250.00	5,250.00	(Bituminous Macadam Bridge	1,854
East Longmeadow	800.00	800.00	800.00	Maintenance	15,771
Granville	700.00	700.00	700.00	Maintenance	23,963
Longmeadow	500.00	500.00	500.00	Maintenance	36,859
Ludlow	1,000.00	1,000.00	1,000.00	Maintenance	21,100
Southwick	400.00	400.00	400.00	Maintenance	20,488
West Springfield	1,000.00	1,000.00	1,000.00	Maintenance	10,267
Wilbraham	400.00	400.00	400.00	Maintenance	12,550
<u>Hampshire County</u>					
Amherst	1,500.00	1,500.00	1,500.00	Maintenance	3,885
Belchertown	1,000.00	1,000.00	1,000.00	Maintenance	45,118
Chesterfield	1,000.00	1,000.00	1,000.00	Maintenance	25,250
Cummington	750.00	750.00	750.00	Maintenance	27,946
Easthampton	500.00	500.00	500.00	Maintenance	27,907
Goshen	700.00	700.00	700.00	Maintenance	25,158

Counties and Towns

	State	Contributions Town	County	Type of Road or Nature of Work	Length con- tracted for (Feet)
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Hampshire County

Granby	\$ 500.00	\$ 500.00	\$ 500.00	Maintenance	10,312
Hadley	800.00	800.00	800.00	Maintenance	53,100
Hatfield	500.00	500.00	500.00	Maintenance	6,910
Northampton	3,000.00	8,000.00	3,000.00	Bituminous Macadam	1,460
Pelham	200.00	200.00	200.00	Maintenance	4,000
Plainfield	1,000.00	1,000.00	1,000.00	Maintenance	50,383
South Hadley	500.00	500.00	500.00	Maintenance	11,733
Southampton	200.00	200.00	200.00	Maintenance	5,000
Ware	300.00	300.00	300.00	Maintenance	3,760
Westhampton	1,000.00	1,000.00	1,000.00	Maintenance	26,675
Williamsburg	500.00	500.00	500.00	Maintenance	17,064

Middlesex County

Acton	1,000.00	1,000.00	1,000.00	Drainage	200
Arlington	900.00	900.00	900.00	Maintenance	40,446
Ashby	1,000.00	1,000.00	1,000.00	Maintenance	13,100
Ashby	900.00	900.00	900.00	Maintenance	28,075
Ayer	1,800.00	1,800.00	1,800.00	Maintenance	54,009
Belmont	900.00	900.00	900.00	Maintenance	39,996
Boxborough	810.00	810.00	810.00	Maintenance	44,567
Chelmsford	2,250.00	2,250.00	2,250.00	Maintenance	97,810
Concord	900.00	900.00	900.00	Maintenance	86,053
Dracut	1,800.00	1,800.00	1,800.00	Maintenance	80,022
Dunstable	900.00	900.00	900.00	Maintenance	51,184
Groton	1,350.00	1,350.00	1,350.00	Maintenance	65,070
Hopkinton	1,350.00	1,350.00	1,350.00	Maintenance	64,220
Hopkinton	150.00	300.00	300.00	Bridge and approach	-
Lexington	900.00	900.00	900.00	Maintenance	72,611
Littleton	1,620.00	1,620.00	1,620.00	Maintenance	65,548
Maynard	900.00	900.00	900.00	Maintenance	38,817
Sherborn	1,800.00	1,800.00	1,800.00	Maintenance	73,721
Stow	1,350.00	1,350.00	1,350.00	Maintenance	42,434
Sudbury	1,800.00	1,800.00	1,800.00	Maintenance	87,980
Tewksbury	1,800.00	1,800.00	1,800.00	Maintenance	73,484
Townsend	1,350.00	1,350.00	1,350.00	Maintenance	53,558
Watertown	900.00	900.00	900.00	Maintenance	31,488
Wayland	1,350.00	1,350.00	1,350.00	Maintenance	58,207
Westford	2,700.00	2,700.00	2,700.00	Maintenance	148,234
Winchester	450.00	450.00	450.00	Maintenance	46,763

Norfolk County

Bellingham	900.00	900.00	900.00	Maintenance	64,721
Foxborough	1,000.00	1,000.00	1,000.00	Maintenance	60,110
Franklin	1,600.00	1,600.00	1,600.00	Maintenance	105,666
Holbrook	500.00	500.00	500.00	Maintenance	30,628
Medfield	1,000.00	1,000.00	1,000.00	Maintenance	36,431
Medway	900.00	900.00	900.00	Maintenance	68,146
Plainville	500.00	500.00	500.00	Maintenance	25,135
Randolph	900.00	900.00	900.00	Maintenance	39,375
Sharon	1,100.00	1,100.00	1,100.00	Maintenance	58,930

Counties and Towns

	State	Contributions Town	County	Type of Road or Nature of Work	Length con- tracted for (Feet)
<u>Plymouth County</u>					
Abington	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	Maintenance	2,400
Halifax	1,000.00	1,000.00	1,000.00	Maintenance	12,400
Hanover	2,000.00	2,000.00	2,000.00	Maintenance	9,838
Hanson	200.00	200.00	200.00	Bridge Repairs	-
Hanson	1,000.00	1,000.00	1,000.00	Maintenance	8,163
Kingston	1,500.00	1,500.00	1,500.00	Maintenance	20,520
Lakeville	1,000.00	1,000.00	1,000.00	Maintenance	5,160
Marion	1,000.00	1,000.00	1,000.00	Maintenance	15,148
Mattapoisett	1,000.00	1,000.00	1,000.00	Maintenance	7,610
Middleborough	3,000.00	3,000.00	3,000.00	Maintenance	20,299
Norwell	1,000.00	1,000.00	1,000.00	Maintenance	2,400
Rochester	1,000.00	1,000.00	1,000.00	Maintenance	4,650
Scituate	1,000.00	1,000.00	1,000.00	Maintenance	16,901
Wareham	1,100.00	550.00	550.00	Hurricane Damage Repairs	1,500
Whitman	1,000.00	1,000.00	1,000.00	Maintenance	11,820

Worcester County

Auburn	800.00	800.00	800.00	Maintenance	24,432
Barre	425.00	212.50	212.50	Flood Damage Repairs	1,150
Bolton	1,500.00	1,500.00	1,500.00	Maintenance	61,598
Boylston	3,500.00	2,000.00	3,500.00	Maintenance	56,244
Hardwick	800.00	800.00	800.00	Culvert Repairs	-
Harvard	1,000.00	1,000.00	1,000.00	Maintenance	79,975
Lancaster	250.00	250.00	250.00	Maintenance	17,940
Paxton	1,400.00	1,400.00	1,400.00	Maintenance	48,700
Phillipston	1,200.00	1,200.00	1,200.00	Maintenance	70,069
Southborough	150.00	300.00	300.00	Bridge and approach	-
Webster	500.00	500.00	500.00	Maintenance	22,306

REPAIR AND IMPROVEMENT OF PUBLIC WAYS, EXCLUSIVE OF STATE HIGHWAYS,
IN CERTAIN TOWNS

(Sections 26 to 29 and 31 of Chapter 81 of the General Laws, as appearing in the Tercentenary Edition thereof, as amended in Section 26 by Chapter 366 of the Acts of 1934 and in Section 27 by Chapter 224 of the Acts of 1939)

During the year the Department contracted for work to be done in the towns named in the following table, which also shows the road mileage in the towns and the allotments or contributions by the State and towns:

Counties and Towns	Miles of Road	State	Allotment Town
<u>Barnstable County</u>			
Brewster	38	\$ 4,750.00	\$ 3,958.00
Dennis	80	10,000.00	8,333.00
Eastham	43	5,375.00	2,688.00
Mashpee	26	3,250.00	2,167.00
Sandwich	67	8,375.00	5,583.00
Truro	30	3,750.00	3,125.00
Wellfleet	38	4,750.00	3,958.00
<u>Berkshire County</u>			
Alford	18	2,250.00	600.00
Becket	60	7,500.00	2,000.00
Cheshire	43	5,375.00	2,687.00
Clarksburg	14	1,750.00	1,750.00
Egremont	34	4,250.00	2,125.00
Florida	44	5,500.00	2,750.00
Hancock	29	3,625.00	967.00
Hinsdale	36	4,500.00	2,250.00
Lanesborough	43	5,375.00	2,687.00
Monterey	51	6,375.00	1,700.00
Mount Washington	20	2,500.00	417.00
New Ashford	11	1,375.00	229.00
New Marlborough	87	10,875.00	2,900.00
Otis	42	5,250.00	1,400.00
Peru	37	4,625.00	463.00
Richmond	34	4,250.00	2,125.00
Sandisfield	84	10,500.00	1,050.00
Savoy	57	7,125.00	713.00
Sheffield	79	9,875.00	3,292.00
Tyringham	25	3,125.00	1,042.00
Washington	52	6,500.00	650.00
West Stockbridge	34	4,250.00	2,833.00
Windsor	65	8,125.00	813.00
<u>Bristol County</u>			
Berkley	42	5,250.00	2,625.00
Dighton	46	5,750.00	5,750.00
Freetown	46	5,750.00	2,875.00
Norton	57	7,125.00	4,750.00
Raynham	46	5,750.00	3,833.00
Rehoboth	110	13,750.00	6,875.00
Swansea	64	8,000.00	8,000.00

Counties and Towns

Miles
of RoadAllotment
State TownDukes County

Chilmark	14	\$ 1,750.00	\$ 1,458.00
West Tisbury	14	1,750.00	1,458.00

Essex County

Boxford	55	6,875.00	2,292.00
Essex	23	2,875.00	2,875.00
Georgetown	35	4,375.00	3,646.00
Groveland	29	3,625.00	3,021.00
Merrimac	32	4,000.00	4,000.00
Middleton	31	3,875.00	3,875.00
Newbury	42	5,250.00	4,375.00
Rowley	32	4,000.00	3,333.00
Topsfield	39	4,875.00	4,875.00
West Newbury	39	4,875.00	3,250.00

Franklin County

Ashfield	80	10,000.00	2,667.00
Bernardston	40	5,000.00	2,500.00
Buckland	46	5,750.00	5,750.00
Charlemont	47	5,875.00	1,958.00
Colrain	85	10,625.00	3,542.00
Conway	71	8,875.00	2,367.00
Deerfield	75	9,375.00	7,813.00
Gill	34	4,250.00	2,125.00
Hawley	49	6,125.00	613.00
Heath	54	6,750.00	675.00
Leverett	34	4,250.00	1,133.00
Leyden	39	4,875.00	488.00
Monroe	18	2,250.00	1,875.00
New Salem	37	4,625.00	463.00
Northfield	65	8,125.00	4,063.00
Orange	78	9,750.00	9,750.00
Rowe	40	5,000.00	1,333.00
Shelburne	49	6,125.00	6,125.00
Shutesbury	35	4,375.00	729.00
Sunderland	34	4,250.00	2,833.00
Warwick	56	7,000.00	700.00
Wendell	48	6,000.00	600.00
Whately	40	5,000.00	2,500.00

Hampden County

Blandford	74	9,250.00	1,542.00
Brimfield	63	7,875.00	2,100.00
Chester	68	8,500.00	2,833.00
Granville	73	9,125.00	4,563.00
Hampden	34	4,250.00	2,125.00
Holland	32	4,000.00	400.00
Monson	103	12,875.00	6,437.00
Montgomery	28	3,500.00	583.00
Southwick	50	6,250.00	4,167.00
Tolland	40	5,000.00	833.00
Wales	24	3,000.00	800.00
Wilbraham	46	5,750.00	5,750.00

Counties and Towns

Miles
of Road

Allotment
State Town

Hampshire County

Belchertown	103	\$12,875.00	\$ 3,433.00
Chesterfield	58	7,250.00	1,208.00
Cummington	49	6,125.00	1,021.00
Goshen	29	3,625.00	967.00
Granby	49	6,125.00	2,042.00
Hadley	58	7,250.00	6,042.00
Hatfield	47	5,875.00	5,875.00
Huntington	38	4,750.00	2,375.00
Middlefield	41	5,125.00	513.00
Pelham	20	2,500.00	1,667.00
Plainfield	48	6,000.00	600.00
Southampton	56	7,000.00	2,333.00
Westhampton	46	5,750.00	575.00
Williamsburg	42	5,250.00	2,625.00
Worthington	68	8,500.00	1,417.00

Middlesex County

Acton	57	7,125.00	7,125.00
Ashby	58	7,250.00	2,417.00
Ashland	40	5,000.00	5,000.00
Bedford	40	5,000.00	5,000.00
Boxborough	23	2,875.00	767.00
Burlington	41	5,125.00	5,125.00
Carlisle	41	5,125.00	2,563.00
Dracut	71	8,875.00	8,875.00
Dunstable	37	4,625.00	771.00
Groton	73	9,125.00	9,125.00
Holliston	51	6,375.00	6,375.00
Hopkinton	67	8,375.00	6,979.00
Littleton	41	5,125.00	5,125.00
North Reading	37	4,625.00	4,625.00
Pepperell	69	8,625.00	5,750.00
Sherborn	43	5,375.00	5,375.00
Shirley	45	5,625.00	4,688.00
Stow	42	5,250.00	2,625.00
Sudbury	62	7,750.00	7,750.00
Tewksbury	65	8,125.00	8,125.00
Townsend	71	8,875.00	4,438.00
Tyngsborough	40	5,000.00	3,333.00
Westford	81	10,125.00	8,438.00

Norfolk County

Bellingham	49	6,125.00	5,104.00
Medfield	41	5,125.00	5,125.00
Medway	45	5,625.00	5,625.00
Millis	42	5,250.00	5,250.00
Norfolk	41	5,125.00	3,417.00
Plainville	32	4,000.00	3,333.00

Plymouth County

Carver	65	8,125.00	5,417.00
Halifax	35	4,375.00	2,917.00

Counties and Towns	Miles of Road	State	Allotment Town
<u>Plymouth County</u>			
Hanson	37	\$ 4,625.00	\$ 4,625.00
Lakeville	43	5,375.00	3,583.00
Norwell	47	5,875.00	4,896.00
Pembroke	48	6,000.00	6,000.00
Plympton	31	3,875.00	1,938.00
Rochester	51	6,375.00	3,188.00
<u>Worcester County</u>			
Ashburnham	77	9,625.00	4,813.00
Barre	98	12,250.00	6,125.00
Berlin	40	5,000.00	2,500.00
Bolton	52	6,500.00	2,167.00
Boylston	41	5,125.00	2,563.00
Brookfield	35	4,375.00	2,917.00
Charlton	110	13,750.00	4,583.00
Douglas	71	8,875.00	4,438.00
Dudley	65	8,125.00	8,125.00
East Brookfield	19	2,375.00	1,979.00
Grafton	70	8,750.00	8,750.00
Hardwick	84	10,500.00	5,250.00
Harvard	56	7,000.00	4,667.00
Holden	78	9,750.00	8,125.00
Hubbardston	79	9,875.00	1,646.00
Lancaster	52	6,500.00	5,417.00
Leicester	68	8,500.00	7,083.00
Lunenburg	71	8,875.00	4,438.00
Mendon	36	4,500.00	3,000.00
Millville	17	2,125.00	2,125.00
New Braintree	51	6,375.00	1,063.00
North Brookfield	68	8,500.00	5,667.00
Northborough	48	6,000.00	5,000.00
Oakham	46	5,750.00	958.00
Oxford	65	8,125.00	6,771.00
Paxton	28	3,500.00	2,333.00
Petersham	66	8,250.00	2,750.00
Phillipston	44	5,500.00	550.00
Princeton	73	9,125.00	2,433.00
Royalston	73	9,125.00	1,521.00
Rutland	60	7,500.00	3,750.00
Southborough	46	5,750.00	5,750.00
Spencer	100	12,500.00	10,417.00
Sterling	72	9,000.00	4,500.00
Sturbridge	71	8,875.00	4,438.00
Sutton	86	10,750.00	5,375.00
Templeton	63	7,875.00	6,563.00
Upton	59	7,375.00	3,688.00
Warren	69	8,625.00	5,750.00
West Boylston	37	4,625.00	4,625.00
West Brookfield	52	6,500.00	3,250.00
Westborough	63	7,875.00	7,875.00
Westminster	80	10,000.00	5,000.00

GENERAL MAINTENANCE

Continued shortages of materials and regular personnel together with increased age and resulting depreciation of equipment made proper ^{highway} maintenance increasingly difficult during this period. A partial raising of restrictions on the use of asphalt and tar during the year permitted the application of more surface treatments and more extensive patching than was possible during the previous year.

Repairs to road surfaces, maintenance of shoulders and slopes, cleaning ditches and drainage structures and miscellaneous work within the right of way, including repairing fences and guard rails, mowing grassed areas and clearing roadsides were carried on during the year.

SNOW REMOVAL

The snow removal program was continued under Section 19, Chapter 81 of the General Laws as amended by Chapter 187 of the Acts of 1933 governing the removal of snow and ice on State highways and under Section 11, Chapter 84 of the General Laws governing State cooperation on the plowing on certain town highways.

The program included a total of 2306.7 miles of which 1857.2 miles were State highways and 449.5 miles were town roads plowed on a cooperative basis.

It was necessary to do considerable sanding during this winter because of smooth and worn tires and also the fact that tire chains were difficult to obtain.

Repair parts for State-owned trucks and equipment were also difficult to obtain and it was necessary for repair crews to work a considerable amount of overtime in order to keep the equipment running.

CHAPTER 81 ROADS

Under Chapter 81, Sections 26-29 of the General Laws as amended by Chapter 366, Acts of 1934, and Chapters 68, 138 and 442, Acts of 1943, 180 towns with a total of 9142 miles of public ways were eligible for benefits during the calendar year ending December 31, 1944. \$1,143,750.00 was appropriated under this program.

For the calendar year ending December 31, 1945 there were 180 towns eligible with 9135 miles of public ways, the appropriation amounting to \$1,141,875.00.

ROADSIDE DEVELOPMENT

Roadside development work during the fiscal year beginning July 1, 1944 was confined to tree spraying with an arsenate of lead solution, replacement of trees and shrubs which died or were damaged during the winter and the preparation and supervision of contracts for repairs due to hurricane damage. The work under these contracts was largely on Cape Cod and was done during the winter of 1944 and 1945. Similar work was also done by our own forces.

A small number of requests for permission to remove trees were investigated.

In general, the amount of work done, with the exception of hurricane repairs, was small due to wartime restrictions.

DEFENCE ACCESS ROAD PROJECTS

The following defence access road projects were completed during the past year.

<u>TOWN</u>	<u>Project No.</u>	<u>Type of Construction</u>	<u>Miles</u>
Mashpee-Sandwich	DAWR-23B(1)	Reconstruction	8.3
Mashpee-Sandwich	DAWR-23B(2)	Surface Treatment	8.3
Mashpee	DAWR-23A(2)	Surface Treatment	3.5
			<u>20.1</u>

The above work was performed with this Department's labor, equipment and materials and all expenditures are reimbursable by the Federal Government, which requested that the work be undertaken.

CONTRACT MAINTENANCE PROJECTS

Contracts were let for much of the work resulting from damage caused by the hurricane of September 14, 1944 under Contract Maintenance. The bulk of the work was for removal of stumps, trimming of trees, and repairing washouts and slope erosion in the Cape area. The total damage to State highways caused by the hurricane was estimated to be \$243,000.

Other contract maintenance projects completed during the fiscal year included the following:-

French King Bridge - Erving-Gill - Gunite repairs to Concrete Deck.

New Bedford Drawbridge - Fall River-Somerset - Cleaning and Painting entire bridge.

BRIDGE MAINTENANCE AND OPERATION

Miscellaneous concrete and steel repairs and painting were completed by regular maintenance forces during the fiscal year beginning July 1, 1944.

The following is a list of drawbridges maintained by the Department:

Drawbridge over the Merrimac River between Newburyport and Salisbury

This bridge was placed in charge of the Massachusetts Highway Commission and made a State highway by the provisions of Chapter 716, Acts of 1912, which also provided that the expense of keeping the bridge in good repair for travel, of operating the draw and of maintaining the structure shall be paid by the Commonwealth.

The number of draw openings for this period was 40.

Drawbridge over Weymouth Fore River between Quincy and Weymouth

The jurisdiction of the Department of Public Works over this bridge was provided for by Chapter 348, Acts of 1933.

This drawbridge was constructed by the Department in the years 1935 and 1936.

The Act provides that the cost of all operation and maintenance of the bridge shall be paid by the Commonwealth.

The number of draw openings for this period was 984.

Drawbridge over Acushnet River in New Bedford

This bridge was placed in charge of the Department of Public Works and made a State highway by the provisions of Chapter 406, Acts of 1930, which also provided that the expense of keeping the bridge in good repair for travel, of operating the draw and of maintaining the structure shall be paid by the Commonwealth.

The number of draw openings for this period was 1271.

Brightman Street Drawbridge over the Taunton River between Fall River and Somerset

This bridge was placed in charge of the Massachusetts Highway Commission and made a State highway by the provisions of Chapter 717, Acts of 1912, which also provided that the expense of keeping the bridge in good repair for travel, of operating the draw and of maintaining the structure shall be paid by the Commonwealth.

The number of draw openings for this period was 858.

Slades Ferry Drawbridge over the Taunton River between Fall River and Somerset

Under Chapter 367, Acts of 1934, the Department was directed to repair this bridge after which the Department was to have control of the bridge and assess the city of Fall River and the towns of Somerset and Swansea for the cost of maintenance. The bridge was repaired, a new draw span built and officially opened for travel in December 1938.

The number of draw openings for this period was 1726.

STATE REGULATION OF ADVERTISING SIGNS AND DEVICES

(Chapter 93, Sections 29-33, General Laws, as amended)

The regulation of advertising signs as provided for by the General Laws as cited above relates to certain advertising signs or devices on private property within public view, with certain statutory exceptions. For the fiscal year ending June 30, 1945, the Outdoor Advertising Division was self sustaining, in compliance with the original intent of the Legislature that there be no expense to the Commonwealth for this service. The Division's revenue is obtained from a uniform rate of fees for licenses and permits issued during the year to advertising companies and individuals. These permits expire on June 30 of each year. The number of renewal permits for signs for the year ended was 6,394.

Licenses were granted to twenty (20) individuals and others to engage in the business of advertising in the Commonwealth by the use of outdoor signs.

One hundred and eighty-eight applications were received for permits for the erection of advertising signs. Two hundred and sixteen permits were granted for the year to regular advertising companies. In addition, seventy-seven individual advertisers were given permits on single applications. There were also six temporary applications for permits granted. The greater part of these individual applications were obtained at the information desk maintained in the office of this Division for the purpose of education and explaining the various provisions of the Law.

Many requests were received during the past year from various other States relative to our law, which is considered a model throughout the country. In addition, many city, town and civic groups have received from this Division information relative to local advertising sign problems.

RECEIPTS AND EXPENDITURES

Total receipts year ending June 30, 1945	\$21,799.81
Total expenditures year ending June 30, 1945	19,598.01

REMOVAL OF SIGNS

The "Sign Patrol" consisting of one truck completely equipped for the work has removed 19,000 signs during the year in addition to 800 removed by other agents of the Department, under authority of Section 30A, Chapter 93, General Laws, from within the highways and from private property.

REGISTRY OF MOTOR VEHICLES

1944.
On August 15, Frank A. Goodwin, who would reach the age of seventy on October 28, resigned as Registrar of Motor Vehicles after having served the Commonwealth of Massachusetts in this capacity for seventeen and one half years, and retired to private life. He was succeeded in office on August 16 by the newly appointed Registrar of Motor Vehicles, Rudolph F. King.

Due to the same circumstances as one year ago, it was necessary to continue the use of the 1942 registration plates for the year 1944. The same procedure was followed and a new windshield sticker, bearing the new financial transaction number, was issued with each certificate of registration.

Owing to two principal causes (1) the delay and difficulty in obtaining new repair parts and (2) lack of sufficient mechanics to make necessary repairs, only one inspection of vehicles was made. The Spring inspection was omitted for the year 1944.

The gradual decline in the total volume of transactions noted during 1943 continued through 1944 with one exception, the total number of examinations of applicants for licenses to operate motor vehicles increased from slightly less than 50,000 in 1943 to slightly more than 60,000 in 1944.

Two additional Executive Orders issued by His Excellency the Governor, during 1944, related to the operation of the Registry of Motor Vehicles, namely, #66 and #70.

- #66 Authorized Registrar of Motor Vehicles to furnish additional registration number plates and/or to replace lost or mutilated plates, both without the collection of any fee therefor.
- #70 Authorized Registrar of Motor Vehicles to issue without collection of any fee therefor temporary permits to operate motor vehicles to certain members of the armed forces.

A COMPARATIVE STATEMENT OF OUTSTANDING FIGURES

A few of the outstanding figures for the year as compared with those of the previous year are as follows:

	<u>1943</u>	<u>1944</u>
Certificates of registration issued	902,123	882,360
Compulsory insurance cancellation notices received	28,588	24,827
Licenses to operate issued	1,217,924	1,193,941
Examinations of applicants for licenses	49,950	60,446
Licenses and registrations revoked and suspended	32,946	29,479
Licenses revoked for driving under influence of liquor	3,253	3,024

REGISTRATIONS OF PASSENGER CARS, COMMERCIAL VEHICLES AND MOTORCYCLES

The following registration figures show a 2.4% decrease in passenger vehicles, a 0.9% decrease in commercial vehicles, and a 2.6% increase in motorcycles for the year 1944 as compared with the previous year.

	<u>1904</u>	<u>1914</u>	<u>1924</u>	<u>1934</u>	<u>1943</u>	<u>1944</u>
Passenger cars	3,772	77,246	580,489	831,853	792,054	773,253
Commercial vehicles	--	--	91,826	112,260	108,300	107,292
Motorcycles	<u>489</u>	<u>8,161</u>	<u>10,778</u>	<u>1,375</u>	<u>1,769</u>	<u>1,815</u>
	4,261	85,407	683,093	945,488	902,123	882,360

EXAMINATIONS FOR LICENSES

The appointment system of examining new operators was continued during the year 1944. The following figures show that there was an increase in the number of persons examined at the fifty-one examining points in the State.

	<u>1943</u>	<u>1944</u>
Operators passed	47,439	57,217
Operators unfit	2,233	3,045
Restriction removal, passed	43	42
Restriction removal, unfit	3	2
"Competency" passed	228	138
"Competency" unfit	4	2
	<hr/>	<hr/>
Total Examinations	49,950	60,446

BRANCH OFFICES

No new branch offices of the Registry were established. The teletype machine installation was extended to the Haverhill branch office during this year 1944.

The following figures give an approximate idea of the distribution of the volume of applications presented by the public at Boston as well as at the Branch Offices.

APPROXIMATE DISTRIBUTION OF REGISTRATIONS, LICENSES, ETC.

	<u>Regis- trations</u>	<u>First Licenses</u>	<u>License Renewals</u>	<u>Miscel- laneous</u>	<u>Totals</u>
Boston:					
Counter	153,664		109,457	29,878	292,999
Mail	177,191		538,860	9,727	725,778
Examinations		11,192		841	12,033
Brookton	37,599	2,210	31,290	4,316	75,415
Fall River	29,197	3,562	26,506	3,403	62,668
Fitchburg	22,823	1,780	17,506	2,700	44,809
Framingham	25,897	2,404	16,644	2,454	47,399
Greenfield	12,544	866	11,470	1,242	26,122
Haverhill	14,606	1,277	13,729	1,615	31,227
Holyoke	13,882	1,199	15,883	1,748	32,712
Hyannis	10,520	956	6,413	905	18,794
Lawrence	20,584	1,931	24,874	2,230	49,619
Lowell	20,194	1,575	21,202	2,506	45,477
Lynn	40,085	3,713	41,302	2,107	87,207
Malden	29,177	2,821	28,554	3,556	64,108
New Bedford	26,065	2,048	29,084	3,330	60,527
Northampton	12,553	825	11,227	1,198	25,803
Oak Bluffs	2,611	325	428	200	3,564
Pittsfield	21,467	1,819	21,738	2,527	47,551
Quincy	34,374	4,346	37,572	4,985	81,277
Springfield	56,977	5,467	55,316	6,610	124,370
Waltham	25,318	3,175	24,924	3,162	56,579
Worcester	48,057	4,488	51,391	7,047	110,983
North Adams*	3,795	-----	-----	-----	3,795
	839,180(1)	57,979	1,135,370	98,287(2)	2,130,816

*A temporary branch office for the issuance of number plates only was opened at North Adams during the annual re-registration period.

- (1) Does not include reissues - see Miscellaneous.
 (2) This figure includes approximately 52,751 number plate reissues.

COMPULSORY MOTOR VEHICLE LIABILITY INSURANCE

The following figures show the volume of papers received and notices mailed in connection with the carrying out of the law regarding compulsory motor vehicle liability insurance.

Causes for Cancellation of Policies:			1943	1944
For non-payment of premiums			23,498	19,807
For other reasons			5,090	5,020
Total			28,588	24,827
Origin of requests for Cancellation of Policies:				
Insurance companies			22,110	19,902
Finance companies			6,478	4,925
Total			28,588	24,827
Disposition of applications for cancellation:				
Replacement certificates, adjusting cancellations			1,770	2,133
Reinstatements, adjusting cancellations			17,225	15,736
Sets of plates returned before effective date of cancellation			2,742	1,141
Revocations			6,851	5,817
Total			28,588	24,827
Return of Plates:				
Returned promptly after revocation			2,382	2,298
By Police			1,875	1,244
Not returned			2,594	2,275
Total revocations			6,851	5,817

PROPERTY DAMAGE

Under the provisions of Section 22A of Chapter 90, General Laws, the Registrar may, upon receipt of evidence satisfactory to him, suspend the license of any operator who has failed to satisfy a judgment rendered against him after sixty days in any case in which such operator is the defendant in an action brought to recover damages for injuries to property arising out of the use, operation or maintenance on the ways of the Commonwealth of a motor vehicle or trailer.

The following figures indicate the number of cases in which successful plaintiffs availed themselves of the additional facilities provided in the law for recovering damages and the action taken thereon:

	<u>1943</u>	<u>1944</u>
Complaints received	204	140
Releases received, no action being necessary	88	46
Licenses or right to operate suspended	116	94
Licenses or right to operate reinstated after suspension	150	155

EXCISE TAX

	<u>1943</u>	<u>1944</u>
Suspensions	1,391	1,264
Plates Returned and Transfers of Ownership, no action being necessary	3	
	2,441	1,008
Notices of payment received	10,255	9,203
	<hr/>	<hr/>
Total notices of non-payment received	13,987	11,475

INSPECTION OF MOTOR VEHICLE EQUIPMENT

Because of the difficulty and delay in obtaining parts and the reduction in the available number of repairmen and official station personnel, inspection regulations were changed so as to require only one inspection of motor vehicle equipment and to double usual inspection period to two months. September and October were selected as the period most effective, the months immediately preceding those of highest accident experience. During this period, 621,800 vehicles were submitted for inspection, 5113 motor vehicle registrants failed to comply with inspection regulations within the time limit, with the following results:

Registrations suspended	281
Filed, no action	278
Prosecuted in court	4554
Eighteen official stations were suspended because of dishonest or faulty inspection work.	

SCHOOL BUS INSPECTIONS

The usual inspections of the general condition and equipment of school buses were conducted as usual and without experiencing any major difficulties. The number of buses submitted during each inspection period of one week was 973.

GENERAL EQUIPMENT ENFORCEMENT

The equipment section continued general enforcement throughout the year with reduced office and road personnel due to war conditions. Equipment inspectors tagged 19,976 vehicles for defective lighting equipment, 21,143 because of defective brakes, steering gear and other miscellaneous equipment, and reported 5279 cases of defective equipment to the Registrar, for his action. They also apprehended and reported 1345 cases of improper operating observed by them on the road. State and local

police issued 8575 equipment tags during the year which were handled by the equipment section.

As a result of the road activities of equipment inspectors, 1177 registration plates were suspended or revoked for the following:

Defective brakes	316
Defective lights	216
Misc. equipment	645

Owners were mailed 2812 notices to submit their cars for test to determine whether they had been put in safe condition to be operated on the highway.

MOTOR VEHICLE DEATHS, INJURIES, ACCIDENTS

Increases over 1943 in each of these classifications were recorded during 1944 as follows:

Persons killed increased by 12 or 2.6%

Persons injured increased by 1,755 or 7.3%

Personal Injury Accidents increased by 1,093 or 6.4%

A comparative table of classified deaths, injuries, and accidents during 1943 and 1944 follows:

<u>Motor Vehicle Accidents to Persons</u>				
	<u>Persons Killed</u>		<u>Persons Injured</u>	
	1943	1944	1943	1944
Pedestrians by autos	263	271	6,130	*6,537
Pedestrians by motorcycles	2	0	4	10
Pedestrians near street cars	0	0	0	0
Occupants of autos	152	171	16,822	18,254
Occupants of autos at R.R. crossings	8	9	59	21
Occupants of motorcycles	6	4	74	88
Bicycle Riders	14	12	550	547
Occupants horse-drawn vehicles	1	2	53	27
Coasters on sleds	6	2	166	152
Coasters on wheels	0	1	45	22
Totals	452	472	23,903	25,658
	<u>Children Killed</u>		<u>Children Injured</u>	
	1943	1944	1943	1944
Boys	65	59	2,772	3,118
Girls	18	19	1,445	1,676
Totals	83	78	4,217	4,794
<u>Types of Accidents</u>				
Collision with pedestrian			6,132	6,510
Collision with automobile			7,571	8,236
Collision with horse-drawn vehicle			32	24
Collision with railroad train			33	21
Collision with street car			285	270
Collision with fixed object			873	992
Collision with bicycle			533	515
Non-collision (overturn)			248	263
Collision with motorcycle			79	90
Collision with sled			163	145
Collision with animal			8	7
Collision with coaster on wheels			45	23
Totals			16,002	17,096
In the daytime			9,916	10,348
After dark			6,086	6,748
Totals			16,002	17,096

* 7 Horseback Riders included in total.

ACCIDENT REPORT LETTERS

As provided in Section 26, Chapter 90, General Laws, every operator of a motor vehicle in any manner involved in an accident in which any person is killed or injured is required to report in writing to the Registrar. The number of such accident reports received from operators in 1944 was 20,109 as compared with 18,727 received in 1943.

Under the requirements of Section 29, Chapter 90, General Laws, 7,751 similar reports of accidents were received from police throughout the State in 1944 as against 7,344 received in 1943.

In addition to and in connection with this reporting of accidents by operators 3,714 letters and complaints reporting faulty operation were received in 1944 as compared with 3,416 received in 1943.

INVESTIGATIONS AND PROSECUTIONS BY INSPECTORS

Investigations were made under the direction of the Chief Inspector relative to fatal and non-fatal accidents, violations of the laws concerning brakes and headlights, inspection of garages, miscellaneous complaints, and the prosecution of motorists in court. The tabulation below shows the wide range of these activities of the inspectors.

CLASSIFICATION OF REPORTS

	<u>1943</u>	<u>1944</u>
Accidents - fatal	478	435
Accidents - non-fatal	771	548
General Reputation	2,229	2,293
Miscellaneous	<u>5,162</u>	<u>4,600</u>
Totals	8,640	7,876
Complaints filed	14,342	6,735
Garages inspected	62,829	72,788
Headlights, brakes, etc.	7,834	4,376
Prosecutions	2,481	1,092
Amount of fines	\$20,579	\$11,098

REVOCATIONS AND SUSPENSIONS

	<u>1943</u>	<u>1944</u>
Licenses suspended	12,196	11,064
Licenses revoked	2,764	2,561
Rights suspended	3,567	3,348
Certificates suspended	1,947	1,457
Certificates revoked	92	65
Certificates and licenses suspended	27	23
Certificates and licenses revoked	171	201
Certificates revoked and rights suspended	18	14
Rights in Massachusetts suspended	79	63
	<hr/>	<hr/>
Totals	20,861	18,796
Resulting from investigations	5,839	4,739
Resulting from court convictions	9,076	7,850
Resulting from police complaints	3,354	2,953
Resulting from State Police complaints	2,592	3,254
	<hr/>	<hr/>
Totals	20,861	18,796

CHARACTER OF OFFENSES

	<u>1943</u>	<u>1944</u>
Reckless and endangering life	865	844
Liquor convictions	2,448	2,299
Going away after accidents	365	309
Operating without authority	384	407
Improper persons	3,101	2,779
Improper person, liquor	805	725
Improper operating	2,053	1,933
Speed	8,539	7,624
Three overspeeds	1	2
Insurance convictions	336	271
Improper equipment, brakes	170	160
Improper equipment, lights	168	111
Improper equipment, tires	94	54
Improper equipment, miscellaneous	767	319
Fatal accidents	317	374
Property damage	122	96
Other offenses	326	489
	<hr/>	<hr/>
Totals	20,861	18,796

Registrations revoked on liquor convictions	694	781
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1943

1944

SUSPENSIONS AND REVOCATIONS RESULTING FROM:

Non-payment of Excise Taxes	1,336	1,264
Parking Violations	3,194	2,821
Insurance Cancellations	<u>6,861</u>	<u>5,817</u>

Totals	11,391	9,902
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Total number of suspensions and revocations	32,946	29,479
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Court recommendations adopted:-

Reckless and endangering	31	28
Going away after accidents	4	1
Without authority	<u>0</u>	<u>1</u>

Totals	35	30
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Persons whose licenses were suspended or revoked and who were required to pass examination	2,882	2,944
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ANALYSIS OF COURT ABSTRACTS RECEIVED

	<u>1943</u>	<u>1944</u>
Number of courts forwarding abstracts	95	95
Total abstracts received	39,255	33,453
Abstracts recording convictions	28,039	24,717

Offenses

(Analysis of convictions, not including appeals)

	<u>1943</u>	<u>1944</u>
Overspeeding.....	6,920	8,333
Reckless.....	5	5
Operating under influence of liquor.....	2,320	2,338
Using auto. without authority.....	556	621
Endangering lives.....	1,381	1,279
Not stopping after causing injury.....	562	551
No license.....	1,659	1,579
No registration certificate.....	350	286
Unregistered vehicle.....	406	314
Improper display or no register number.....	160	197
Refusing to stop on signal.....	161	185
Not signalling.....	0	2
Operating within 8 ft. of Street Car.....	20	94
Viol. Met. Park. Rules.....	92	55
Operating after suspension or revocation of lic..	418	406
Larceny.....	97	62
Manslaughter.....	3	0
Miscellaneous.....	7,602	2,531
Lenses not approved.....	6	4
Racing.....	0	0
Operating after reg. certificate revoked.....	7	20
Violation of spot-light law.....	0	0
Passing red light.....	205	527
Improper lights.....	508	123
Brakes not as required by law.....	58	68
Violation of Insurance Law.....	368	307
Not slowing down approaching pedestrian.....	20	24
Not slowing down at intersecting way.....	3,663	4,261
Violation of Law of Road.....	388	431
Perjury--Making false statements on license application, falsely impersonating or con- spiring to obtain a license.....	7	6
Loaning license to another.....	2	2
Allowing intoxicated person to operate.....	4	5
No windshield cleaner.....	2	2
Allowing improper person to operate.....	79	86
Attempted larceny.....	10	13
<u>TOTALS</u>	<u>28,039</u>	<u>24,717</u>

USED CAR SECTION
(Motor Vehicle Identification)

The following is a resume of the work accomplished by the Used Car Section which indexes, under engine numbers, all motor vehicles registered and reported stolen, and checks reports of sales of used cars against the stolen-vehicle records. Dealers' and repairmen's plates and registration certificates are issued by this section.

The work of the section is summarized in the following tables:

	<u>Dealers</u>	<u>1943</u>	<u>1944</u>
Total number filing reports at this office		1,650	1,505
	<u>Reports</u>		
Approximate number of notices of intended sales received daily		375	410
Approximate number of dealers' reports received daily		511	555
	<u>Motor Vehicles Stolen</u>		
Number stolen in Boston		2,695	2,334
Number stolen in Massachusetts (including Boston)		5,858	5,679
Number reported stolen from various sources throughout the country, including Massachusetts		15,756	15,849
Number of motor vehicles recovered through information furnished by this office		235	246
	<u>Engine and Serial Numbers</u>		
Engine numbers assigned to cars		7	10
Certificates issued authorizing the replacement of original engine or serial numbers		268	416
Notices of change of engines received and records amended		1,705	1,964

ANALYSIS OF RECEIPTS

The fees received for the year 1944, together with the number of certificates of registration issued in each classification and the number of licenses granted, etc., are shown in the following table:-

Certificates of Registration		
Passenger cars (including taxicabs)	768,270	\$ 2,498,537.47
Commercial cars	107,302	1,507,056.81
Buses	4,983	174,398.10
Trailers	19,942	25,834.70
Motor Cycles	1,815	2,529.75
Manufacturers or Dealers (including repairers)	2,149	6,447.00
Manufacturers or Dealers additional cars (including repairers)	10,172	30,512.00
Licenses to operate		
Original licenses	58,187	116,374.00
Renewal licenses	1,135,754	2,271,208.00
Examinations	53,075	
Re-examinations	<u>7,924</u>	
Total examinations	60,999	114,074.00
Copies of certificates and licenses furnished		
Duplicate number plates furnished	30,529	30,526.00
Miscellaneous receipts, process fees, etc.	1,486	1,486.00
		<u>13,716.03</u>
Total amount of fees		\$ 6,792,699.86
Motor Vehicle fees rebated (deducted)		<u>69,337.25</u>
Net fees		\$ 6,723,362.61

REGISTRY OF MOTOR VEHICLES

Fiscal Year Expenditures

1945

PERSONAL SERVICES	\$1,170,163.20
GENERAL EXPENSES	349,583.01
PUBLICITY FOR SAFETY WORK	<u>542.01</u>
	<u>\$1,520,288.22</u>
	<u><u> </u></u>
FISCAL YEAR RECEIPTS TO HIGHWAY FUND	<u><u>\$6,849,114.03</u></u>

ANALYSIS OF EXPENDITURES UNDER "EXPENSE APPROPRIATION" FISCAL YEAR 1945

Code No.

182	Cleaning Services.....	\$	4,970.03
198	Labor.....		910.31
199	Registration Lists "Auto List".....		4,250.00
201	Advertising for Bids.....		106.70
202	Postage.....		83,779.43
203	Printing.....		7,496.88
204	Bulletins & Law Books.....		32.00
205	Office Supplies.....		7,423.42
205A	Stationery.....		1,573.27
206	Telephone & Telegraph.....		19,800.75
207	Surety Bonds.....		678.75
209	Photostats.....		150.11
210	Office Furniture.....		641.17
211	Office Machine Repairs.....		1,206.32
212	Subscriptions, Books and Maps.....		394.66
213	Membership Dues.....		144.00
214	Mileage.....		59,034.34
215	Railroad Fares.....		580.85
216	Bus & Taxi Fares.....		728.69
217	Hotel Fees.....		685.22
218	Meals.....		6,108.89
219	Other Travel.....		4.00
220	Files.....		137.82
223	Rental Office Equipment.....		1,089.00
224	Repairs to Equipment.....		1,069.65
229	Other Office Machines.....		3,540.65
230	Other Rentals.....		15.00
234	Paper for Printing.....		4,482.66
236	Office Rentals.....		23,140.63
238	Number Plates.....		100,929.19
248	Freight & Express.....		6,265.77
320	Uniforms.....		2,245.58
323	Repairs to Uniforms.....		161.34
335	Lavatory Supplies.....		68.61
338	Cleaning Supplies.....		496.48
339	Laundry Service.....		498.70
407	Gas.....		73.49
408	Electricity.....		1,916.11
486	Snow Removal.....		22.97
503	Electrical Supplies.....		502.52
514	Repairs to Buildings.....		114.51
579	Wrappings, Twine, etc.,,,,,,.....		331.40
731	D P W Charges for Registry Cars.....		1,781.14

TOTAL \$ 349,583.01

DIVISION OF WATERWAYS

RELATING TO WATERWAYS AND PUBLIC LANDS -- BOSTON HARBOR

The Commonwealth Flats at South Boston--Commonwealth Pier 5

The United States Navy Department has continued during the fiscal year the use of the entire pier under the terms and conditions of the lease of August 1, 1941.

The usual work of repairs and maintenance has been carried on by the Department this year. Repairs have been made to elevators and elevator machinery, to Ogden doors and other metal and wood doors, to boilers at the heating plant and to gangways.

Work under contract No. 813, dated January 31, 1945, with L. O. Mahoney Company, for replacement of existing water pipes and the accompanying steam pipes and insulation for toilet service at three locations at the pier, was completed May 17, 1945 at a contract cost of \$4021.58.

Work under contract No. 820, dated March 27, 1945, with John V. Cavanagh, for the repair of portions of the plaster wall on the northeasterly side of the Headhouse at the pier, is still in progress.

LAND OF THE COMMONWEALTH AT SOUTH BOSTON

The Wiggin Terminals, Inc. has continued to operate this year Storehouse No. 2 on E street, South Boston. A considerable area of the land of the Commonwealth at South Boston has continued to be used by the United States Navy and War Departments in connection with war activities.

Under two leases, dated December 27, 1944, Irving Usen Company, Inc. was granted the use of land on the southerly side of Northern Avenue for a term of 15 years at a total rental of \$4028.00.

COMMONWEALTH PROPERTY

On August 1, 1944, Contract No. 801 was entered into with John Kitson for performing carpenter work on Commonwealth property during the year. This work consisted of the construction and repair of wooden bridges, repairs to wooden platforms, construction and repair of field offices and miscellaneous carpenter work on Commonwealth property in Boston.

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COMMONWEALTH FLATS AT EAST BOSTON
General Edward Lawrence Logan Airport

DEVELOPMENT OF THE AIRPORT

Continued studies for the layout of permanent runways at the Airport in view of changes in operational requirements by the Civil Aeronautics Commission resulted in a new layout plan for runways which provides for a three-directional field with parallel runways 1500 feet apart. This revised plan was approved by the Department, the Massachusetts Aeronautics Commission, and the Governor and Council.

Additional funds to continue the expansion of the Airport were requested by legislation and under Chapter 383 of the Acts of 1945, a bond issue of \$15,000,000 was approved.

In order to provide for suitable access roads and hangar space for the Airport several parcels of vacant land and flats lying between Maverick Street and Prescott Street and between the New York, New Haven and Hartford Railroad property and the Airport were taken by eminent domain.

Work continued on hydraulic filling under Contract 787 with the Gahagan Construction Corporation, and this contract was completed November 16, 1944 when a total of 5,500,000 cubic yards of filling was placed at a cost of \$1,252,620.

Under date of October 2, 1944 a contract for additional hydraulic fill to complete the filling for embankment "A" and "B" was made with the Gahagan Construction Corporation of New York at a cost of 21.7 cents for each cubic yard. Work under this contract began November 16, 1944 and is still in progress.

Administration Building

The increase of passenger traffic with the addition of three new airlines operating from the Airport required the construction of two temporary ticket offices in the Administration Building.

Soil Studies

During the year the Department continued its investigation of the character of the hydraulic filling and Arthur Casagrande and William L. Shannon were employed to perform and furnish the Department with expert advice in connection with the design of the runways for the Airport. A contract, dated September 12, 1944, was made with Charles H. Leary Company to furnish borings and probings into underlying material to furnish necessary data for the runway design.

Maintenance

The existing Airport field has been maintained for the constant use of commercial and Government planes by the maintenance force of the Department. This work consisted of grading and spreading of cinders for temporary surfaces, maintenance of field lighting systems, snow removal and maintenance of approach roads.

Concessions

On December 5, 1944 a lease was signed with Howard D. Johnson Company for the use of certain rooms in the Administration Building for the operation of a restaurant. This lease was for a period of three years at an annual rental of \$12,000 per year.

~~COMMONWEALTH FLATS AT EAST BOSTON~~

~~General Edward Lawrence Logan Airport~~

CONTRACTS

The hydraulic dredging under contract No. 787, dated December 14, 1943, with the Gahagan Construction Corporation, was completed on November 16, 1944, at a contract cost of \$1,255,755.00. The grading to be done under this contract is still in progress.

Work under contract No. 791, dated February 3, 1944, with the Raymond Concrete Pile Company, for furnishing materials, assembling and driving observation points for the measurement of pore water pressure and settlement in the hydraulic fill and taking Shelby tube borings at the Airport, was completed on November 28, 1944, at a contract cost of \$5059.70.

Work under contract No. 796, dated May 24, 1944, with the Raymond Concrete Pile Company, for furnishing labor and equipment and performing all necessary work to make test borings at existing hydraulic filling on the site of Runway "C" at the Airport, was completed on September 30, 1944, at a contract cost of \$5873.93.

Work under contract No. 797, dated June 27, 1944, with the Charles A. Leary Company, for furnishing all equipment and doing all work necessary to make test borings in Boston Harbor in the vicinity of the Airport, was completed on September 11, 1944, at a contract cost of \$4231.57.

Work under contract No. 802, dated September 5, 1944, with Farina Brothers, for the construction of temporary ticket offices at the Administration Building at the Airport, was completed on November 3, 1944, at a contract cost of \$3094.20.

Work under contract No. 803, dated October 2, 1944, with Gahagan Construction Corporation, for placing hydraulic fill in embankments "A" and "B" at the Airport, is still in progress.

Work under contract No. 804, dated September 19, 1944, with William Gens & Son, for installation of range lights at the Airport, is still in progress.

Work under contract No. 806, dated September 12, 1944, with Charles A. Leary Company, for soundings and probings into underlying material in proposed runway extension at the Airport, was completed on February 7, 1945, at a contract cost of \$3794.75.

Work under contract No. 810, dated December 19, 1944, with Marson Construction Company, for the construction of vestibules at the temporary ticket office, Administration Building, at the Airport, was completed on March 24, 1945, at a contract cost of \$567.00.

Work under contract No. 811, dated December 19, 1944, with John Kitson, for the relocation of portable building at the Airport, was completed on January 22, 1945, at a contract cost of \$1170.00.

Work under contract No. 824, dated April 17, 1945, with Charles R. Burns, for construction of a vestibule five feet wide on the easterly side of the temporary ticket office, Administration Building, at the Airport, was completed on May 18, 1945, at a contract cost of \$820.00.

Work under contract No. 826, dated April 30, 1945, with Joseph E. Bennett Co., for construction of a temporary passenger walkway at the Airport, was completed on June 13, 1945, at a contract cost of \$2084.25.

On May 22, 1945, contract No. 829 was made with Warren Brothers Roads Company for placing bituminous concrete surfacing at the Airport. This work was completed on June 19, 1945, at a contract cost of \$3893.47.

On May 2, 1945, contract No. 830 was made with William L. Shannon to furnish to the Department engineering services in connection with the design of runways at the Airport.

Work under contract No. 832, dated June 14, 1945, with Raymond Concrete Pile Company, for furnishing all equipment and doing all work necessary to make test borings in an area northerly of the Airport, adjacent to the shore of Orient Heights, East Boston, is not yet started.

On June 26, 1945, contract No. 837 was made with Arthur Casagrande to perform and furnish to the Department consulting engineering services in connection with the design of runways for the Airport.

COMMONWEALTH PIER 1, EAST BOSTON

The United States Navy has continued during the year the use of Commonwealth Pier 1, at East Boston, under the terms of the lease of October 10, 1940.

COMMONWEALTH PROPERTY AT EAST BOSTON
RAILROAD TRACKS

On October 31, 1944, contract No. 808 was made with J. A. Singarella Company, for repairs to a spur railroad track on Commonwealth Property connecting with the Boston and Albany Railroad in order to place the same in operating condition. This work was completed on April 24, 1945, at a contract cost of \$2145.00.

MYSTIC WHARVES

Under the provisions of Chapter 714 of the Acts of 1941, authorizing the Department to acquire certain waterfront properties of the Boston and Maine Railroad upon which to build a pier to be leased under conditions stated in the statute, the Department has held various conferences and made investigations and tentative plans for this development but has been unable to take further action because of the impossibility of securing the necessary priorities for materials for such construction during the present national emergency.

ROXBURY (SOUTH BAY)

On May 8, 1945, the Department renewed lease to the Downes Lumber Company for use of wharf property at South Bay Avenue, Roxbury, for a term of three years from May 15, 1945 at a rental of \$1800.00 per year.

PETITIONS FOR DREDGING

During the year hearings were held on various petitions for dredging work in the following localities:- Boston Harbor, Malden River, Neponset River, Belle Isle Inlet, Quincy Bay and Weymouth Fore River, but no work was undertaken to carry out the improvements petitioned for.

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RIVERS, HARBORS, TIDE WATERS AND FORESHORES OUTSIDE OF BOSTON HARBOR

For the improvement of rivers, harbors, tide waters and foreshores outside of Boston Harbor, in accordance with the provisions of Section 11 of Chapter 91 of the General Laws, there has been available during the year, the sum of \$75,800.00, upon the following condition:-

"provided, that all expenditures made for the protection of shores shall be upon condition that at least fifty per cent of the cost is covered by contributions from municipalities or other organizations and individuals, except that in the case of dredging channels for harbor improvements at least twenty-five per cent of the cost shall be so covered."

An appropriation of \$15,000 was also made for the maintenance of structures and for repairing damages along the coast line or river banks of the Commonwealth, and for the removal of wrecks and other obstructions from tide water. In addition to this sum, a transfer of \$60,000 was made from the Governor's Emergency War Fund for repairing structures damaged by the hurricane of September, 1944.

Petitions were filed with the Department and public hearings held this year for improvements in the following localities:- Barnstable, Beverly, Brewster, Chatham, Dennis, Deerfield, Edgartown, Harwich, Marshfield, Orleans, Provincetown and Sandwich. No work was undertaken during the year for such improvements except in the towns of Chatham and Marshfield.

Information as to work previously done in rivers and harbors of the Commonwealth may be found in the annual reports of the Board of Harbor and Land Commissioners, the Commission on Waterways and Public Lands, the Division of Waterways and Public Lands of the Department of Public Works and the Department of Public Works.

An account of work done between July 1, 1944 and June 30, 1945 for the improvement of rivers, harbors, tide waters and foreshores outside of Boston Harbor follows:-

CAPE COD CANAL PIER, BOURNE

The use of the Cape Cod Canal Pier has been continued during the year by the United States Coast Guard under the terms of the lease of June 1, 1942.

CHATHAM

On April 30, 1945, contract No. 821 was made with the American Hydraulic Dredging Company for channel excavation in Aunt Lydia's Cove, Chatham. This work is not yet completed. A contribution of \$2622.50 was made by the town of Chatham toward the cost of this work.

CHILMARK

On February 14, 1945, contract No. 809 was made with Turner & Breivogel, Incorporated, for repairs to the dike at Menemsha Inlet. This work was completed on April 14, 1945, at a contract cost of \$3401.11.

FALMOUTH

On June 25, 1945, contract No. 823 was made with the Merry Contracting Service for repairs to jetties at Falmouth. This work has not yet started.

GLOUCESTER

On April 17, 1945, contract No. 822 was made with John Kitson for repairs to sea wall at Annisquam Canal. This work was completed on June 16, 1945, at a contract cost of \$6921.00. A contribution of \$4000.00 was made by the city of Gloucester toward the cost of this work.

On March 3, 1944, contract No. 792 was made with the Bay State Dredging and Contracting Company for dredging Harbor Cove. This work was completed on October 14, 1944, at a contract cost of \$21,054.02. An additional \$750.00 was contributed by the city of Gloucester toward the cost of this work.

MASHPEE

On June 25, 1945, contract No. 823 was made with the Merry Contracting Service for repairs to jetties at Mashpee. This work has not yet started.

MARSHFIELD

On March 27, 1945, contract No. 819 was made with John Kitson for repairs to the sea wall at Brant Rock. This work was completed on April 21, 1945, at a contract cost of \$6029.33. A contribution of \$5000.00 was made by the town of Marshfield to be used towards the cost of this project and any future projects to be carried out in this vicinity.

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NANTUCKET

Work under contract No. 672, made with the Bay State Dredging and Contracting Company on August 7, 1940, for dredging anchorage basin in Nantucket Harbor, was completed on September 11, 1944, at a contract cost of \$11,856.35.

NEW BEDFORD STATE PIER

On February 14, 1945, contract No. 818 was made with the Columbia Cornice Company for repairs to the roof of the State Pier. This work was completed on March 28, 1945, at a contract cost of \$1761.19.

The War Department has continued during the year its use of the Colonial Pier under lease of June 30, 1942.

The Superior Fish Ltd. was authorized under permit No. 4532, dated June 19, 1945, to occupy an additional area of 3000 square feet in the building at the State Pier at a rental of \$250.00 per month.

The lease to the United States Coast Guard, covering the use of the Immigration Shed, terminated on October 31, 1944.

A lease to the United States of America, acting by the Federal Housing Commissioner, dated March 13, 1945, authorized the use of the Immigration Shed for a term of one year at a rental of \$2500.00 per year.

OAK BLUFFS

On February 27, 1945, contract No. 817 was made with Turner & Breivogel, Incorporated, for repairs to timber bulkhead at The Highlands, Oak Bluffs. This work was completed on May 24, 1945, at a contract cost of \$7774.75.

PROVINCE LANDS

By Chapter 47 of the Acts of 1893 the Board of Harbor and Land Commissioners was given general care and supervision of an area containing about 3,810 acres known as the Province Lands at Provincetown. At that time the area was stripped of trees, denuded of vegetation and the loose sand driven by the wind was filling ponds and menacing the harbor of Provincetown.

The work of reclaiming these lands was begun in 1894 and has been continued since under the direction of the Harbor and Land Commissioners and their successors. A superintendent at Provincetown is in immediate charge of the work.

At present the method first used is to check the movement of the sand by covering the dunes with brush which provides enough protection for the natural re-seeding of the beach grass. This work is followed by the transplanting of shrubs, particularly bayberry, which has been found valuable for holding the sand especially along the slopes of the dunes. After this preparation is completed the transplanting of trees and reforestation is begun. In this way about 1,200 acres of land have been reclaimed.

Work has been carried on in accordance with these methods during the year, as follows:

Approximately 5 acres of the shifting sand have been brushed over to catch the sand drift and seed.

One hundred feet of brush and sapling sand catching barriers have been constructed along the coastal or littoral dunes.

Four thousand sand bags and 500 square feet of peat sod were put in place to cover exposed sand core of dike at Race Run in order to maintain temporarily what remained of the dike after it had given away in two places during a severe storm in the middle of the winter until permanent repairs could be made.

Cleared all combination fire stops and truck trails, also nature trails and bridle paths of hurricane felled trees; re-erected to a vertical position one large 35 foot European Linden tree in the park area in Provincetown which was blown over to a 45 degree angle and secured it with guy wires; felled two old Willows which had also blown over in this park but were too old to re-erect; and pruned for symmetry all other trees and shrubs in this park; also all trees alongside of nature trails which were badly broken from the hurricane.

Pulled and hauled away 200 stumps of uprooted trees alongside of trails.

Transplanted from our nursery on the Province Lands 150 assorted trees to replace roadside trees felled during the hurricane, also several hundred shrubs for marginal planting around plantations to protect the tree roots which had become exposed from wind erosion.

Widened and eliminated sharp curves along one and one half miles of trail.

Burned all slash from hurricane felled trees to eliminate the fire hazard caused by their dried foliage.

Enlarged and deepened seven water holes when water level was unusually low due to prolonged drought.

Completed silvicultural work along nature trails and constructed one mile of log guard rail where needed.

Painted with creosote all gypsy moth egg clusters. Collected and burned brown tail moth nests from beach plum bushes, also fallen twigs cut off by the oak tree pruner (an insect which was unusually active the past summer), and burned wood infested with pine borers and bark beetles.

Maintained bathing beaches, picnic areas, park and historical sites in Eastham, North Truro and Provincetown. Also maintained nursery and combination fire stops and truck trails, keeping mineral soil exposed on these fire stops. The usual vigilant forest fire patrol during periods of greatest danger was maintained, also a liaison with the military using these "Lands".

The sum of \$348.00 has been paid into the State Treasury from July 1, 1944 to June 30, 1945 from permits issued for cultivating and picking cranberries on the bogs, for mowing meadows and for occupying areas on these lands.

PROVINCETOWN TERCENTENARY COMMISSION

During the year the land at Provincetown, acquired by the Provincetown Tercentenary Commission and placed under the control of the Department June 23, 1926, has been cared for from funds appropriated for this area and the Province Lands. An employee has been kept at work during the summer to maintain the park in proper condition.

READING DRAINAGE

Lake Quannapowitt

Under the provisions of Chapter 458 of the Acts of 1939 and amendments thereof, the Department this year made a taking of easements in certain parcels of land in the town of Reading under date of July 5, 1944.

Construction work was continued by contract to provide channel walls for the control of erosion in the vicinity of Salem Street and stop plank structures for the divergence of flow above Ash Street.

Contract No. 798 for that work was awarded to John Kitson on July 25, 1944 and was completed on September 12, 1944, at a cost of \$4570.08.

Taking settlements are still in progress.

SCITUATE

Work under contract No. 795, made with George E. Duteau on May 10, 1944 for placing riprap at the Glades sea wall was completed on July 14, 1944, at a contract cost of \$3643.82.

On May 15, 1945, contract 827 was made with John Kitson for repairs to sea wall at the Glades. This work was completed on June 23, 1945, at a contract cost of \$4225.66. Contributions of \$1250.00 each were made by the town and county toward the cost of this work.

YARMOUTH

On June 25, 1945, contract No. 823 was made with the Merry Contracting Service for repairs to jetties at Yarmouth. This work has not yet started.

IMPROVEMENT OF RIVERS AND STREAMS

Under the provisions of Chapter 513 of the Acts of 1939 and with the additional appropriation made by Chapter 419 of the Acts of 1941, the work of stream clearance and protection against flood damage has been continued under the following contracts:

Barre - Prince River. Work under contract No. 812, dated January 23, 1945, with William P. Gorman for furnishing labor and equipment for channel excavation in the bed of the Prince River above and below the Mechanic Street Bridge and the removal of material deposited in the bridge opening, was completed on March 24, 1945, at a contract cost of \$1018.00.

Williamstown - Hemlock Brook. Work under contract No. 814, dated January 23, 1945, with David M. Deans for furnishing labor and equipment for channel excavation in Hemlock Brook, was completed on April 14, 1945, at a contract cost of \$492.00.

Petersham - Swift River. Work under contract No. 815, dated February 7, 1945, with the Merry Contracting Service for furnishing labor and equipment for channel excavation on the East Branch of the Swift River and the furnishing and placing of riprap paving on the banks of the roadway adjacent to the culvert under the highway, was completed on April 14, 1945, at a contract cost of \$2501.75.

Montague - Saw Mill River. Work under contract No. 816, dated January 31, 1945, with Warner Brothers & Goodwin, Inc. for channel excavation and stream clearance in the Saw Mill River, was completed on June 2, 1945, at a contract cost of \$2263.30.

Becket - Greenwater Pond. Work under contract No. 828, dated May 8, 1945, with David M. Deans for making repairs to spillway at Greenwater Pond, was completed on May 10, 1945, at a contract cost of \$275.00.

Medfield-Millis - Charles River. Work under contract No. 835, dated June 26, 1945, with the Merry Contracting Service for removal and disposal of an old pile and timber trestle from the Charles River, has not yet started.

Becket - Greenwater Pond. Work under contract No. 836, dated June 25, 1945, with David M. Deans for construction of concrete spillway and dike at Greenwater Pond, has not yet started.

Advisory Hydraulic Engineering Services. On May 15, 1945, contract No. 839 was entered into with Howard M. Turner to perform and furnish to the Department of Public Works advisory hydraulic engineering services in connection with flood control work.

MISCELLANEOUS

GREAT PONDS

Jurisdiction over great ponds belonging to the Commonwealth was given to the Board of Harbor and Land Commissioners by Chapter 318 of the Acts of 1888. This Act applies to ponds containing in their natural state more than ten acres of land. Authority to sell and convey or lease, subject to the approval of the Governor and Council, any of the islands owned by the State in great ponds was given later by Chapter 379 of the Acts of 1904, now Section 2 of Chapter 91 of the General Laws.

During the year the Department has considered matters relating to Vaughn Pond, Carver; Greenwater Pond, Becket; Laurel Lake, Lee; Hammond Pond, Nantucket; Strait's Pond, Hull and Lake Quannapowitt in Reading.

BOSTON AUXILIARY AIRPORT AT BEDFORD

The Federal Government has continued during the year to use the Boston Auxiliary Airport at Bedford, under lease dated July 1, 1942.

COMMONWEALTH PROPERTY AT PLYMOUTH

During the fiscal year \$3500.00 has been available for expenses of the property at Plymouth acquired by the Pilgrim Tercentenary Commission and placed under the jurisdiction of the Department by vote of the Governor and Council on July 17, 1924. The usual care of the grounds and pier and the necessary minor repairs have been carried on during the year.

CONSERVING AND EQUALIZING THE FLOW OF WATER IN RIVERS AND STREAMS

Under Chapter 359 of the Acts of 1909, Chapter 564 of the Acts of 1912 and Chapter 84 of the Resolves of 1917, cooperation was established between the Commonwealth and the Water Resources Branch of the United States Geological Survey, so that results of the work relating to the gauging of streams within the Commonwealth and other work of a similar character by said Survey have been obtained for use by the Department and are available also for other departments of the Commonwealth.

COOPERATIVE WORK WITH THE UNITED STATES GEOLOGICAL SURVEY

Under appropriations made by the Legislature for the purpose the Department has continued this year cooperative work with the United States Geological Survey in the making of a new topographical map of Massachusetts, of a geological survey and map to determine the natural resources of the Commonwealth and in the work of stream gauging within the State.

Remapping of the Commonwealth

Under the provisions of Chapter 215 of the Acts of 1933 the Department has continued the making of a new topographical map of the Commonwealth in cooperation with the United States Geological Survey. Sheets of the new map are being published from time to time, although the work has not yet been completed and the entire edition is not yet available. The new maps already published are on sale by the United States Geological Survey at Washington, D. C.

Geological Survey and Maps

Chapter 457 of the Acts of 1938 amended Chapter 215 of the Acts of 1933 to provide not only for the preparation of a contour topographical survey but, in addition, a geological survey and map to determine and locate the natural resources of the Commonwealth. This work has been carried on since 1938 in cooperation with the United States Geological Survey.

LICENSES AND PERMITS

During the period from July 1, 1944 to June 30, 1945, the Department has granted 114 licenses for work to be done in tide water, great ponds, Connecticut River and Merrimack River, and in rivers and streams under the provisions of Section 6 of Chapter 513 of the Acts of 1939. The Department has also granted 122 permits for miscellaneous purposes and approved 13 permits issued by municipal authorities for the construction and maintenance of fish weirs in tide water.

FEDERAL APPROPRIATIONS AND EXPENDITURES

Federal appropriations and expenditures for the improvement of rivers and harbors in Massachusetts from the establishment of the Government to the close of the fiscal year ending June 30, 1945, are shown in the following tables furnished by the Chief of Engineers, United States Army.

TABLE NO. 1 -- Localities at which work was done during the Fiscal Year ending June 30, 1945:-

<u>LOCALITY</u>	<u>APPROPRIATIONS</u>	<u>EXPENDITURES</u>
Boston Harbor	\$18,648,977.00	\$18,584,561.00
Weymouth Fore River	1,045,125.00(1)	1,005,125.00
Cape Cod Canal	39,840,629.00	39,455,551.00
Pollock Rip Shoals, Nantucket Sound	1,812,223.00	1,812,223.00
New Bedford and Fairhaven Harbor	2,313,169.00(2)	2,283,169.00
Fall River Harbor	1,136,870.00	1,106,870.00
Chatham(Stage)Harbor	50,260.00	50,260.00
TOTAL	<u>\$64,847,253.00</u>	<u>\$64,297,759.00</u>

(1) Exclusive of \$100,000 contributed funds

(2) Exclusive of \$20,400 contributed funds

TABLE NO. 2 - Localities at which no work was done during the Fiscal Year ending June 30, 1945:

LOCALITY	APPROPRIATIONS	EXPENDITURES
Mystic River	\$ 959,783.00	\$ 954,174.00
Harbor of Refuge at Nantucket	774,584.00	774,584.00
Edgartown Harbor	45,614.00(1)	45,614.00
Vineyard Haven Harbor	82,573.00	82,573.00
Newburyport Harbor	754,279.00	754,279.00
Merrimack River	517,752.00	517,752.00
Ipswich River	5,618.00	5,618.00
Essex River	30,000.00(2)	30,000.00
Sandy Bay, Cape Ann	1,941,478.00	1,941,478.00
Rockport Harbor	91,229.00	91,229.00
Gloucester Harbor and Annisquam River	664,305.00	664,305.00
Manchester Harbor	23,986.00	23,986.00
Beverly Harbor	246,690.00(3)	246,690.00
Salem Harbor	107,957.00	107,957.00
Marblehead Harbor	584.00	584.00
Winthrop Harbor	8,993.00	8,993.00
Malden River	149,950.00(4)	149,950.00
Dorchester Bay and Neponset River	128,176.00	128,176.00
Town River	298,357.00(5)	298,357.00
Hingham Harbor	38,317.00	38,317.00
Cohasset Harbor	10,000.00	10,000.00
Scituate Harbor	313,818.00	313,818.00
Duxbury Harbor	37,000.00	37,000.00
Kingston Harbor	8,940.00	8,940.00
Wareham Harbor	95,997.00	95,997.00
Wellfleet Harbor	11,350.00	11,350.00
Provincetown Harbor	389,582.00	389,582.00
Hyannis Harbor	224,450.00	224,450.00
Little Harbor, Woods Hole	18,000.00	18,000.00
Woods Hole Channel	350,260.00	350,260.00
Canapitsit Channel	9,113.00	9,113.00
Westport River	3,000.00	3,000.00
Cuttyhunk Harbor	44,828.00(6)	44,828.00
Taunton River	475,811.00	475,811.00
Bass River	20,150.00	20,150.00
Buzzards Bay Harbor (Weepecket Rock)	2,500.00	2,500.00
Powow River	50,941.00	50,941.00
Plymouth Harbor	512,882.00(7)	512,882.00
Lynn Harbor	855,336.00	855,336.00
Weymouth Back River	75,741.00(8)	75,741.00
Cross Rip Shoals, Nantucket Sound	72,437.00	65,555.00
Menemsha Creek, Marthas Vineyard *	-	-
TOTAL	\$10,452,361.00	\$10,439,870.00

- (1) Exclusive of \$10,000 contributed funds
- (2) Exclusive of \$ 5,000 contributed Funds
- (3) Exclusive of \$100,000 contributed funds
- (4) Exclusive of \$62,000 contributed funds
- (5) Exclusive of \$111,763 contributed funds
- (6) Exclusive of \$11,643 contributed funds
- (7) Exclusive of \$108,400 contributed funds
- (8) Exclusive of \$20,000 contributed funds

* Authorized in River and Harbor Act approved March 2, 1945
No work or costs to date

CONTRACTS MADE BY THE DIVISION OF WATERWAYS OF
THE DEPARTMENT OF PUBLIC WORKS AND IN FORCE
DURING THE PERIOD JULY 1, 1944-JUNE 30, 1945

CONTRACT NO. 672, dated August 7, 1940

Work: Dredging anchorage basin in Nantucket Harbor, Nantucket
Contractor: Bay State Dredging and Contracting Company
Contract Prices: For dredging and disposing of dredged material,
29.5 cents per cubic yard, scow measurement
For removing and disposing of boulders,
\$20.00 per cubic yard
Condition of Work: Completed September 11, 1944.

CONTRACT NO. 787, dated December 14, 1943

Work: Hydraulic fill for embankments "C" and "D", General Edward Lawrence Logan Airport, East Boston
Contractor: Gahagan Construction Corporation
Contract Prices: For each cubic yard of material dredged from borrow area,
including all labor, equipment and incidental work,
22.74 cents
Condition of Work: Hydraulic dredging work completed on November 16, 1944, but
grading work still in progress.

CONTRACT NO. 791, dated February 3, 1944

Work: Installation of observation points, General Edward Lawrence Logan Airport, East Boston
Contractor: Raymond Concrete Pile Company
Contract Prices: For each linear foot Shelby Tube boring driven, \$6.25
For each linear foot 2" casing furnished and driven, \$1.65
For each linear foot 1" standard pipe furnished and driven \$1.50
Condition of Work: Completed November 28, 1944.

CONTRACT NO. 792, dated March 3, 1944

Work: Dredging, Harbor Cove, Gloucester

Contractor: Bay State Dredging and Contracting Company

Contract Prices: 1. 12,000 cu. yds. material dredged, scow meas. 92 cents c.y.
2. For each cu. yd. boulders removed (1 cu.yd.) \$25

Condition of Work: Completed October 14, 1944.

CONTRACT NO. 795, dated May 10, 1944

Work: Placing Riprap, Glades Sea Wall, Scituate

Contractor: George E. Duteau

Contract Prices: For each ton of stone riprap furnished and placed in the completed work, \$3.25
For each hour of use of crane and crew rehandling stone, \$8.00

Condition of Work: Completed July 14, 1944.

CONTRACT NO. 796, dated May 24, 1944

Work: Wash borings on Runway "C" General Edward Lawrence Logan Airport, East Boston

Contractor: Raymond Concrete Pile Co.

Contract Prices: For each hour's work for a crew of three men working regular time, \$6.875 per hour
For each hour of overtime work for crew of three men working beyond regular time \$8.875 per hour
For transportation and assembly of plant \$15.00

Condition of Work: Completed September 30, 1944.

CONTRACT NO. 797, dated June 27, 1944

Work: Wash borings in vicinity of General Edward Lawrence Logan Airport, East Boston

Contractor: Charles A. Leary Co.

Contract Prices: For each linear foot of borings, \$1.03
For transportation of equipment \$75.00

Condition of Work: Completed September 11, 1944.

CONTRACT NO. 798, dated July 25, 1944

Work: Construction of channel walls and stop plank structures on Reading Drainage Project, Reading

Contractor: John Kitson

Contract Prices: For excavation, \$4.50 per cubic yard
For ordinary borrow, \$1.00 per cubic yard
For Class A concrete, \$38.00 per cubic yard
For reinforcing steel placed, 4 cents per pound
For crusher tailings furnished and placed, \$3.50 per ton
For lumber furnished and placed, \$300 for each **MEM**
For stone paving furnished and placed, \$5.00 for each sq. yd.
For grading, 20 cents for each square yard

Condition of Work: Completed September 12, 1944.

CONTRACT NO.800, dated July 25, 1944

Work: Repairs to gangways and doors, Commonwealth Pier 5, South Boston

Contractor: Kinnear Manufacturing Co.

Contract Prices: For furnishing carpenters, \$2.15 per hour
For furnishing sheet metal workers, \$2.50 per hour
For furnishing iron workers, \$2.50 per hour
For furnishing painters, \$2.10 per hour
For furnishing electricians, \$2.50 per hour
For furnishing common laborers, \$1.27 per hour
For furnishing materials - cost plus 12-1/2%

Condition of Work: Work in progress.

CONTRACT NO. 801, dated August 1, 1944

Work: Carpenter Work on Commonwealth Property

Contractor: John Kitson

Contract Prices: For furnishing carpenters, \$2.40 Per hour
For furnishing materials, cost plus 12-1/2%

Condition of Work: Completed May 19, 1945.

CONTRACT NO. 802, dated September 5, 1944

Work: Construction of Temporary Ticket Offices at Administration Building, General Edward Lawrence Logan Airport, East Boston

Contractor: Farina Brothers

Contract Prices: For removal of steel sasn and storage of same, lump sum of \$72.00
For construction of new outside walls, windows, doors, counters, painting and incidental work, lump sum of \$2490.00
For removal and relocation of existing radiation and new connections for same, lump sum of \$120.00

Condition of Work: Completed November 3, 1944.

CONTRACT NO. 803, dated October 2, 1944

Work: Placing Hydraulic Filling for Embankments A and B at
General Edward Lawrence Logan Airport, East Boston

Contractor: Gahagan Construction Corporation

Contract Prices: Material dredged from borrow area 21.7 cents per cubic yard

Condition of Work: Work in progress.

CONTRACT NO. 804, dated September 19, 1944

Work: Range Lights at General Edward Lawrence Logan Airport, East Boston

Contractor: William Gens & Son

Contract Prices: For trenching in earth 20 cents per lineal foot
For cable installation 5 cents per lineal foot
For range light installation \$39.00 for each range light
For boundary light installation \$36.00 for each boundary light
For relocating boundary lights \$41.00 for each boundary light

Condition of Work: Work in progress.

CONTRACT NO. 805, dated September 12, 1944

Work: Repairs to Elevators, Commonwealth Pier 5, South Boston

Contractor: Consolidated Elevator Company

Contract Prices: Elevator Workers, classed as Journeymen \$2.13 per hour
Elevator Workers, classed as Helpers 1.53 " "
Masons 2.00 " "
Masons Tenders 1.15 " "
Carpenters 1.80 " "
Sheet Metal Workers 2.00 " "
Electricians 2.00 " "
Iron Workers 2.00 " "
Painters 1.80 " "
Materials--actual cost plus 12-1/2%

Condition of Work: Completed June 30, 1945.

CONTRACT NO. 806, dated September 12, 1944

Work: Soundings and probings at General Edward Lawrence Logan Airport, East Boston.

Contractor: Charles A. Leary Company

Contract Prices: For each hour's work for crew of three men
regular time, \$6.75 per hour

For each hour of overtime work for crew of three men
working beyond regular time, \$8.75 per hour

For transportation and assembly of plant, lump sum of
\$40.00

Condition of Work: Completed February 7, 1945.

CONTRACT NO. 808, dated October 31, 1944

Work: Repairs to Railroad Tracks in East Boston

Contractor: J. A. Singarella Company

Contract Prices: For furnishing track foremen \$3.00 per hour
For furnishing track laborers 2.00 per hour

Condition of Work: Completed April 24, 1945.

CONTRACT NO. 809, dated February 14, 1945

Work: Dike Repairs, Menemsha, Chilmark and Gayhead

Contractor: Turner & Breivogel

Contract Prices: For furnishing and placing gravel borrow \$1.22 per cubic yard
For furnishing and placing stone paving 9.37 per cubic yard

Condition of Work: Completed April 14, 1945.

CONTRACT NO. 810, dated December 19, 1944

Work: Construction of Vestibules at Temporary Ticket Office, Administration Bldg. General Edward Lawrence Logan Airport, East Boston.

Contractor: Marson Construction Co. Inc.

Contract Prices: For furnishing all labor and materials and constructing two vestibules, lump sum of \$489.00

Condition of Work: Completed March 24, 1945.

CONTRACT NO. 811, dated December 19, 1944

Work: Relocation of Portable Building at General Edward Lawrence Logan Airport, East Boston.

Contractor: John Kitson

Contract Prices: For furnishing all labor, equipment and materials and performing all work required to relocate Portable Building, the lump sum of \$1170.00.

Condition of Work: Completed January 22, 1945.

CONTRACT NO. 812, dated January 23, 1945

Work: Furnishing Equipment and Labor for Stream Clearance Work in Town of Barre.

Contractor: William P. Gorman

Contract Prices: For furnishing 3/4 yd. power shovel \$6.50 per hour
For furnishing 7-ton bulldozer 5.50 per hour
For furnishing common labor 1.00 per hour

Condition of Work: Completed March 24, 1945.

CONTRACT NO. 813, dated January 31, 1945

Work: Replacement of Water Pipe at Commonwealth Pier 5, South Boston

Contractor: L. O. Mahoney Co.

Contract Prices: For furnishing and installing 3/4" black W.I. pipe 49 cents per linear foot
For furnishing and installing 1-1/4" galvanized W.I. pipe 84 cents per linear foot
For furnishing and installing 1-1/2" galvanized W.I. pipe 92 cents per linear foot
For furnishing and installing 2-1/2" galvanized W.I. pipe \$2.56 per linear foot
For furnishing and installing 3" C.I. pipe, \$2.09 per linear foot
For furnishing and installing 1-1/4" brass gate valves \$5.75 for each valve
For furnishing and installing 1-1/2" brass gate valves \$7.60 for each valve
For furnishing and installing 2-1/2" C.I. body wheel operated stop & waste valves, \$40.60 for each valve
For furnishing and installing 2-1/2" C.I. body wheel operated gate valves, \$25.40 for each valve
For furnishing and installing 3" C.I. underground gate valve with service box, \$40.60
For furnishing and installing insulation around steam & water pipes, \$3.60 per linear foot

CONTRACT NO. 813, dated January 31, 1945-Cont'd

Contract Prices: For excavation of concrete slab over trench, \$28.00 per cubic yard
For excavation of earth for 3" water pipe trench, \$3.60 per cubic yard
For furnishing and installing 1:2:4 concrete slab over trench, \$12.80 per cubic yard
For furnishing and installing type I-2 bituminous concrete, \$32.00 per ton

Condition of Work: Completed May 17, 1945.

CONTRACT NO. 814, dated January 23, 1945

Work: Stream Clearance Work in Hemlock Brook, Williamstown

Contractor: David M. Deans

Contract Prices: Furnishing power crane \$5.00 per hour
Furnishing 7-ton bulldozer 4.00 per hour
Furnishing common labor 1.12-1/2 per hour
Furnishing and installing 24-inch V.C. pipe drain \$5.00 per linear foot

Condition of Work: Completed April 14, 1945.

CONTRACT NO. 815, dated February 7, 1945

Work: Stream Clearance Work in Swift River, Petersham

Contractor: Merry Contracting Service

Contract Prices: For furnishing 3/4 yard power shovel, \$5.85 per hour
For furnishing 7-ton bulldozer, 4.65 per hour
For furnishing common labor, 1.00 per hour
For furnishing and placing stone paving, \$5.75 for each cubic yard
For furnishing and placing gravel, \$1.75 for each cubic yard

Condition of Work: Completed April 14, 1945.

CONTRACT NO. 816, dated January 31, 1945

Work: Stream Clearance Work in Saw Mill River, Montague

Contractor: Warner Brothers & Goodwin, Inc.

Contract Prices: Furnish 3/4 yard power shovel \$7.00 per hour
Furnish 7-ton bulldozer 6.00 per hour
Furnish common labor 1.10 per hour

Condition of Work: Completed June 2, 1945.

CONTRACT NO. 817, dated February 27, 1945

Work: Repairs to timber bulkhead at The Highlands, Oak Bluffs
Contractor: Turner & Breivogel
Contract Prices: For construction of timber bulkhead, \$32.50 for each linear foot
Condition of Work: Completed May 24, 1945.

CONTRACT NO. 818, dated February 14, 1945

Work: Roof Repairs at New Bedford State Pier
Contractor: Columbia Cornice Co.
Contract Prices: For furnishing and placing 5-ply roofing, \$20.00 for each square(100 sq. ft.) of roofing
For repairing existing flashing, 15 cents for each sq. foot
For furnishing and securing in place new galvanized metal flashing, 30 cents per square foot
For furnishing and securing new metal ventilators, \$37.50 for each ventilator
Condition of Work: Completed March 28, 1945.

CONTRACT NO. 819, dated March 27, 1945

Work: Repairs to Sea Wall, Brant Rock, Marshfield
Contractor: John Kitson
Contract Prices: For furnishing and placing concrete as footing for sea wall, \$17.00 per cubic yard
For furnishing and placing stone riprap and chips, \$3.35 per ton
Condition of Work: Completed April 21, 1945.

CONTRACT NO. 820, dated March 27, 1945

Work: Plaster Wall Repairs, Commonwealth Pier 5, South Boston

Contractor: John V. Cavanagh

Contract For installing structural steel angles and channels
Prices: 40 cents per pound
For furnishing and installing plaster wall,
60 cents per square foot
For furnishing and installing copper flashing,
\$2.50 for each square foot

Condition of Work: Work in progress.

CONTRACT NO. 821, dated April 30, 1945

Work: Channel Excavation in Aunt Lydia's Cove, Chatham

Contractor: American Hydraulic Dredging Company

Contract For each cubic yard of material excavated from channel
Prices: and basin by the hydraulic method and disposed of
the sum of 46.95 cents

For each cubic yard of boulders over one cubic yard in
volume excavated and disposed of, the sum of \$5.00

Condition of Work: Work in progress.

CONTRACT NO. 822, dated April 17, 1945

Work: Repairs to Sea Wall, Annisquam Canal, Gloucester

Contractor: John Kitson

Contract For excavation of material, refill of trench and disposal
Prices: of surplus, the sum of \$3.50 for each cubic yard
For concrete masonry Class C furnished and placed, the
sum of \$18.00 for each cubic yard
For salvaging and relaying granite masonry, the sum of
\$18.00 for each cubic yard
For removal, repair and replacement of pipe rail fence,
the lump sum of \$200.00.

Condition of Work: Completed June 16, 1945.

CONTRACT NO. 823, dated June 25, 1945

Work: Proposed Jetty Repairs, Falmouth, Mashpee and Yarmouthn

Contractor: Merry Contracting Service

Contract Prices: For each ton of stone riprap and chips furnished and placed in east jetty at Falmouth Inner Harbor, including all incidental work, the sum of \$5.20 for each ton of 2000 pounds

For each hour of use of crane and crew re-handling stone at Falmouth Harbor, including all incidental work, the sum of \$8.00 for each hour

For each ton of stone riprap and chips furnished and placed in east jetty at Waquoit Bay, including all incidental work, the sum of \$5.40 for each ton of 2000 pounds

For each ton of stone riprap furnished and placed in the west jetty at Bass River entrance, including all incidental work, the sum of \$4.80 for each ton of 2000 pounds.

Completed: Work not started.

CONTRACT NO. 824, dated April 17, 1945

Work: Constructing Vestibule at Temporary Ticket Office, Administration Building, General Edward Lawrence Logan Airport, East Boston

Contractor: Charles R. Burns

Contract Prices: For furnishing labor and material and constructing vestibule, the lump sum of \$820.00.

Condition of Work: Completed May 18, 1945.

CONTRACT NO. 826, dated April 30, 1945

Work: Temporary Passenger Walkway, General Edward Lawrence Logan Airport, East Boston

Contractor: Joseph E. Bennett Co.

Contract Prices: For drilling all holes in concrete apron, including all incidental work, the lump sum of \$676.00

For furnishing and setting pipe posts and sleeves, including all incidental work, the lump sum of \$330.00

For furnishing and installing 6"x6" wooden light posts, including all incidental work, the lump sum of \$108.00

For furnishing all materials and installing electric conduit, wiring and fixtures, including all incidental work, the lump sum of \$946.00

Condition of Work: Completed June 13, 1945.

CONTRACT NO. 827, dated May 15, 1945

Work: Repairs to Sea Wall, Glades, Scituate

Contractor: John Kitson

Contract Prices: For each cubic yard of concrete furnished and placed,
\$17.00 for each cubic yard
For each ton of riprap furnished and placed,
\$3.45 per ton
For each hour of use of crane and crew re-handling stone,
the sum of \$10.00 for each hour

Condition of Work: Completed June 23, 1945.

CONTRACT NO. 828, dated May 8, 1945

Work: Repairs to Spillway, Greenwater Pond, Becket

Contractor: David M. Deans

Contract Prices: Furnishing all labor and materials and constructing timber
platform, the lump sum of \$275.00

Condition of Work: Completed May 10, 1945.

CONTRACT NO. 829, dated May 22, 1945

Work: Placing Bituminous Concrete Surfacing, General Edward Lawrence Logan Airport, East Boston

Contractor: Warren Brothers Roads Co.

Contract Prices: For furnishing all labor, plant and materials to place
400 tons of bituminous concrete surfacing at the Logan
Airport, the sum of \$9.75 for each ton

Condition of Work: Completed June 19, 1945.

CONTRACT NO. 830, dated May 2, 1945

Work: Engineering Services, design of runways, General Edward Lawrence Logan Airport, East Boston

On May 2, 1945 Contract No. 830 was entered into with William L. Shannon to furnish to the Department of Public Works engineering services in connection with the design of runways for Logan Airport.

CONTRACT NO. 832, dated June 14, 1945

Work: Wash Borings in Boston Harbor at General Edward Lawrence Logan Airport, East Boston

Contractor: Raymond Concrete Pile Company

Contract Prices: For each linear foot of borings made, including labor and materials, the sum of \$1.52 per linear foot
For transportation of equipment, including all incidental work, the lump sum of \$25.00

Condition of Work: Not started.

CONTRACT NO. 835, dated June 26, 1945

Work: Removal of Timber Trestle in Charles River, Medfield and Millis

Contractor: Merry Contracting Service

Contract Prices: For furnishing all labor and equipment and removing trestle in Charles River, the lump sum of \$480.00

Condition of Work: Not started.

CONTRACT NO. 836, dated June 25, 1945

Work: Construction of Concrete Spillway & Dike, Greenwater Pond, Becket

Contractor: David M. Deans

Contract Prices: For each cubic yard of excavation, including all incidental work, the sum of 75 cents for each cubic yard
For each cubic yard of ordinary borrow furnished and placed, including all incidental work, the sum of \$1.00 for each cubic yard
For each cubic yard of loam furnished and placed, including all incidental work, the sum of \$1.50 for each cubic yard
For each cubic yard of gravel furnished and placed, including all incidental work, the sum of \$1.10 for each cubic yard
For each cubic yard of concrete masonry Class A furnished and placed, including all incidental work, the sum of \$25.00 for each cubic yard
For each cubic yard of concrete masonry Class C furnished and placed, including all incidental work, the sum of \$22.00 for each cubic yard
For each pound of steel reinforcement furnished and placed including all incidental work, the sum of 10 cents for each pound

CONTRACT NO. 836, dated June 25, 1945-Cont'd.

Contract
Prices:

For each pound of miscellaneous steel furnished and placed, including all incidental work, the sum of 10 cents for each pound

For each thousand feet board measure of lumber furnished and placed, including all incidental work, the sum of \$245.00 for each thousand foot board measure

For furnishing labor and material and constructing manhole, including all incidental work, the lump sum of \$213.00

For furnishing labor and materials and setting valve and making all necessary adjustments to 20-inch pipe, the lump sum of \$1000.00

For each ton of riprap furnished and placed in the completed work, the sum of \$4.00 for each ton of 2,000 pounds

Condition
of Work:

Not started.

CONTRACT NO. 837, dated June 26, 1945

Work:

On June 26, 1945, Contract No. 837 was entered into with Arthur Casagrande to perform and furnish to the Department of Public Works consulting engineering services in connection with the design of runways for the General Edward Lawrence Logan Airport, East Boston.

CONTRACT NO. 839, dated May 15, 1945

Work:

On May 15, 1945 Contract No. 839 was entered into with Howard M. Turner to perform and furnish to the Department of Public Works advisory hydraulic engineering services in connection with flood control work.

DEPARTMENT OF PUBLIC WORKS - DIVISION OF WATERWAYSRECEIPTSPORT OF BOSTON FUND
(Chapter 91, General Laws)for
12 months ending
June 30, 1945

General Expenses

56,272.34 for 56,250.16
12 months ending
June 30, 1945

Commonwealth Pier 1	1.00	
Commonwealth Pier 5	268,588.74	
Rentals and Maintenance of Commonwealth	195,455.70	
Sale of land and property	2,000.00	
License Charges, Boston Harbor	2,724.40	150,148.58
Pay Station Receipts	1,521.28	
Airport Rentals	26,764.29	
Airport Miscellaneous	12,100.00	
Refunds prior years	125.32	509,280.73
Supervision of Dredging Inspectors	779.46	
Improvement of Rivers and Harbors	63,324.49	
New Bedford State Pier	13,795.49	
Plymouth Property, Expenses of	3,033.44	
Province Lands, Expenses of	7,771.94	
Certified Copying Charges	126.50	
Cape Cod Canal Pier	8,000.00	
New Bedford Pier (Ch. 419 - 1941)	7,689.03	114,412.80
Gloucester Fish Pier	20,000.00	
Province Lands	348.00	
Inspection of Dumping, Outside Boston Harbor	1,415.24	
License Charges, Outside Boston Harbor	2,405.38	
Sale of miscellaneous plans and bid and specification receipts (8307)	3,86.25	
Waterways Miscellaneous	160.00	
Operation and Maintenance of Logan Airport	40,230.40	
Refund of Receipts Voucher	-2,778.00	37,452.40
Commonwealth Airport, New Renewal	1,411.00	4,575,698.11

LOGAN AIRPORT
(Section 6, Chapter 383 - 1945)

Rentals	1,262.61	<u>1,262.61</u>
		547,995.74

IMPROVEMENT OF RIVERS
AND HARBORS TRUST FUND
(Chapter 91, General Laws)

Contributions from Towns, individuals or others	14,872.50
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SUMMARY OF EXPENDITURES BY DIVISION OF WATERWAYS

for
12 months ending
June 30, 1945

General Expenses	56,250.16	56,250.16
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BOSTON HARBOR

Dredging and Filling	1,444.65	
Operation and Maintenance of Commonwealth Pier 5, South Boston	97,140.05	
Maintenance of Property	<u>51,563.88</u>	150,148.58

OUTSIDE BOSTON HARBOR

Compensation of Dumping Inspectors	979.46	
Improvement of Rivers and Harbors	63,324.49	
New Bedford State Pier	10,795.49	
Plymouth Property, Expenses of	3,039.46	
Province Lands, Expenses of	7,771.94	
Reading Drainage Fund	5,613.68	
Repairing Damages	14,980.06	
Stream Clearance (Ch. 419 - 1941)	<u>7,938.22</u>	114,442.80

AIRPORTS

Airport Loan, Acquisition and Development (8307)	500,350.26	
Airport Loan, Enlargement (8309)	3,690,148.46	
Third Airport Loan	306,662.52	
Operation and Maintenance of Logan Airport, East Boston	56,455.33	
Commonwealth Airport, Snow Removal	<u>1,200.00</u>	<u>4,554,816.57</u>
		4,875,658.11

SUMMARY OF EXPENDITURES BY DIVISION OF WATERWAYS

for
12 months ending
June 30, 1945

Commissioners, Associate Commissioners,
Personal Services of clerks, stenog-
raphers, and Commissioners' travel

26,013.62

Public Works Building, operation and
maintenance

125,679.35

Public Works Building, Telephone Services

20,826.42

Public Works Building, Salaries of Guards

34,369.36

206,888.75

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